

JOSEPH WOODWELL COMPANY

PITTSBURGH, PENNA.



HARDWARE

80TH ANNIVERSARY EDITION

*80TH ANNIVERSARY EDITION
GENERAL CATALOGUE*

for _____

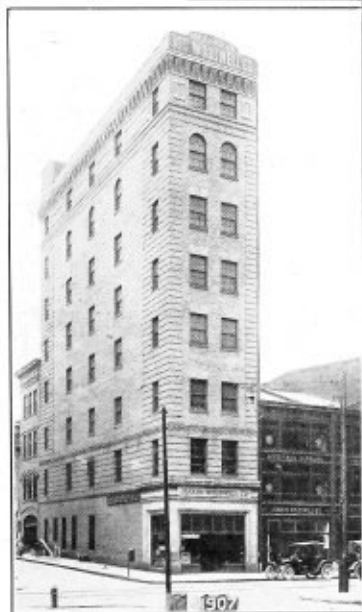
WITH COMPLIMENTS OF

JOSEPH WOODWELL COMPANY
WHOLESALE HARDWARE

201-203 WOOD STREET PITTSBURGH, PENNA.



ON THE SAME CORNER FOR 80 YEARS



NOS. 201 AND 203 WOOD ST.
NOS. 233 TO 239 SECOND AVE. NOS. 236 TO 240 THIRD AVE

OVER 70,000 SQUARE FEET FLOOR SPACE

ESTABLISHED 1847

INCORPORATED 1905

1927

JOSEPH WOODWELL COMPANY

Jobbers of

HARDWARE, TOOLS, CUTLERY, MILL,
MINE, CONTRACTORS AND
AUTOMOTIVE SUPPLIES

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201 AND 203 WOOD STREET
233 TO 239 SECOND AVENUE 236 TO 240 THIRD AVENUE
PITTSBURGH, PA.

AUTOMOTIVE EQUIPMENT

GARAGE
SUPPLIES
MACHINES
and TOOLS

WE CARRY A COMPLETE LINE, SHOWN
IN OUR 500 PAGE CATALOGUE OF
AUTOMOTIVE ACCESSORIES AND
SHOP EQUIPMENT

Think of the Saving You Can Make—

by confining your purchases of Hardware and Automobile Supplies to one concern.

One combined order means:

One letter

One shipment

One transportation charge

One invoice to check

One responsibility for deliveries

One bill to pay

When you buy screws, wire, electric light bulbs, saws, drills, paint, brooms, buckets, anvils, rope and other hardware items from one source, and automobile supplies from another, there is a considerable waste of time, effort and money.

You can eliminate this waste by placing your orders for hardware and automobile supplies with us, as we carry very large and complete stocks of both.

Instructions For Ordering

In Ordering, full shipping address and preferred routes of shipment should be designated, otherwise we will forward by the route we think the cheapest and most expeditious.

All responsibility for the safe delivery of goods, on our part, ceases when we furnish the receipt of the Common Carrier to whom they are entrusted.

In case of failure on the part of the Common Carrier to deliver goods, or in the event of their being damaged in transit, we will cheerfully render all the assistance we can towards the recovery of the goods or their value, but in no case will we assume any responsibility for loss or damage to shipments for which we hold the receipt of Common Carrier.

All goods sent parcels post will be insured by us and the cost of this insurance charged to the customer on the invoice following.

Terms

To all persons unknown to us, or who have not a well recognized commercial standing, satisfactory to us, our terms are cash with order.

To parties having a known and satisfactory credit, our terms are: Two per cent 10th prox.—30 days net.

All overdue accounts subject to sight draft without notice.

All overdue accounts will be subject to charge for interest from date of maturity.

All quotations are made for immediate acceptance, unless otherwise agreed upon.

All price lists, discounts and quotations are subject to market changes without notice.

All prices and quotations for goods are F. O. B. Pittsburgh, unless otherwise stated.

All claims for shortage or deductions must be made on receipt of goods and invoice.

All orders will be accepted with the understanding that the terms and conditions enumerated above are agreed to.

Returned Goods

When orders have been correctly filled, we can not allow the return of goods, unless a full explanation has been made and our consent obtained in advance. If accepted, all goods returned in a salable condition—so they can be sold as new goods—will be credited at prevailing prices less 10 per cent service, rehandling charge, and shipping expenses. Goods returned must have all charges prepaid. When returning goods for repairs, credit or exchange, *mark each package plainly* with your name and address. At the same time write us fully by separate mail, giving specific details covering invoice number and date of our letter authorizing return.

FOREWORD

...

To Our Customers and Friends:

This is the eightieth year of our Organization.

It gives us great pleasure to present to you our New General Catalogue at this time, because we are proud of our record and the confidence so generally reposed in us.

The issuing of this Catalogue is prompted by our earnest desire to give you complete service. Our object has been to supply you with a Catalogue that is compact and easy to handle, illustrating and describing our line in an intelligent manner.

In arranging this Catalogue we have assembled all kindred lines as nearly as possible. You will find this arrangement very helpful in making up your Mail Orders.

All orders are shipped promptly; our shipping facilities cannot be surpassed for Quick Delivery to any point on account of our central location.

Owing to the constant fluctuation of Markets we have not given Net Prices, but have shown Standard Lists where practical. Upon request we will promptly quote Net Prices on any item shown in this Catalogue.

For eighty years our policy has had for its object, the entire satisfaction of our customers, and upon this idea our business has expanded to its present proportions.

We take this opportunity to thank our many patrons for their liberal support during these many years, and assure you of our best efforts to give satisfactory service always, we solicit your continued patronage.

Your very truly,

Joseph Woodwell Company.



1847-1927

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DRILL SLEEVES

MORSE



No. 202—For Taper Shank Tools

Polished Steel, used for increasing size of tang on taper shank drills or reamers.

| Size | 1 to 2 | 1 to 3 | 1 to 4 | 1 to 5 |
|-------------------|-----------------|-----------------|------------------|------------------|
| Hole Taper No. | 1 | 1 | 1 | 1 |
| Shank Taper No. | 2 | 3 | 4 | 5 |
| Length, Inches. | 3 $\frac{3}{8}$ | 3 $\frac{1}{2}$ | 4 $\frac{7}{8}$ | 6 $\frac{1}{8}$ |
| Weight Each, Lbs. | $\frac{1}{8}$ | $\frac{1}{2}$ | 1 $\frac{1}{10}$ | 3 $\frac{1}{10}$ |
| Each | \$1.80 | 2.40 | 3.00 | 4.40 |

| Size | 2 to 3 | 2 to 4 | 2 to 5 | 3 to 4 |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Hole Taper No. | 2 | 2 | 2 | 3 |
| Shank Taper No. | 3 | 4 | 5 | 4 |
| Length, Inches. | 4 $\frac{1}{8}$ | 4 $\frac{3}{8}$ | 6 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| Weight Each, Lbs. | $\frac{3}{8}$ | 1 | 3 | $\frac{4}{8}$ |
| Each | \$2.40 | 3.00 | 3.00 | 4.40 |

| Size | 3 to 5 | 4 to 5 | 4 to 6 | 5 to 6 |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Hole Taper No. | 3 | 4 | 4 | 5 |
| Shank Taper No. | 5 | 5 | 6 | 6 |
| Length, Inches. | 6 $\frac{1}{8}$ | 6 $\frac{5}{8}$ | 8 $\frac{5}{8}$ | 8 $\frac{5}{8}$ |
| Weight Each, Lbs. | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 6 | 5 $\frac{1}{2}$ |
| Each | \$4.40 | 4.40 | 10.00 | 10.00 |



No. 232—For Short Shanks

Used for drills or reamers of which the original tangs have been broken, the shanks reduced in length and fitted with thicker and wider tangs, thus insuring a strong drive.

| Size | 1 to 2 | 1 to 3 | 2 to 3 | 2 to 4 | 3 to 4 |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Hole Taper No. | 1 | 1 | 2 | 2 | 3 |
| Shank Taper No. | 2 | 3 | 3 | 4 | 4 |
| Length, Inches. | 3 $\frac{3}{8}$ | 3 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 4 $\frac{3}{8}$ | 5 $\frac{3}{8}$ |
| Weight Each, Lbs. | $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | 1 | $\frac{4}{8}$ |
| Each | \$1.80 | 2.40 | 2.40 | 3.00 | 3.00 |

| Size | 3 to 5 | 4 to 5 | 4 to 6 | 5 to 6 |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Hole Taper No. | 3 | 4 | 4 | 5 |
| Shank Taper No. | 5 | 5 | 6 | 6 |
| Length, Inches. | 6 $\frac{1}{8}$ | 6 $\frac{5}{8}$ | 8 $\frac{5}{8}$ | 8 $\frac{5}{8}$ |
| Weight Each, Lbs. | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | 5 $\frac{1}{8}$ |
| Each | \$4.40 | 4.40 | 10.00 | 10.00 |

Gauges for fitting drills with broken tangs, furnished to order.

USE-EM-UP



No. 100—For Taper Shank Tools

By grinding a flat on the broken shank of a taper shank drill, it can be used up the same as if it had not been broken.

| Size | 1 to 2 | 1 to 3 | 2 to 3 | 2 to 4 | 3 to 4 | 4 to 5 |
|-----------------|---------------|---------------|---------------|--------|---------------|-----------------|
| Hole Taper No. | 1 | 1 | 2 | 2 | 3 | 4 |
| Shank Taper No. | 2 | 3 | 3 | 4 | 4 | 5 |
| Wt. Each, Lbs. | $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | 1 | $\frac{7}{8}$ | 2 $\frac{1}{2}$ |
| Each | \$1.80 | 2.40 | 2.40 | 3.00 | 3.00 | 4.40 |

DRILL SOCKETS

MORSE



No. 201—For Taper Shank Tools

| Size | 1 to 2 | 1 to 3 | 1 to 4 | 1 to 5 | 2 to 3 | 2 to 4 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Hole Taper No. | 1 | 1 | 1 | 1 | 2 | 2 |
| Shank Taper No. | 2 | 3 | 4 | 5 | 3 | 4 |
| Length, Inches. | 6 $\frac{1}{8}$ | 6 $\frac{3}{8}$ | 7 $\frac{7}{8}$ | 9 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | 8 $\frac{1}{2}$ |
| Wt. Each, Lbs. | $\frac{3}{8}$ | 1 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 5 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 2 $\frac{1}{4}$ |
| Each | \$2.00 | 2.50 | 3.20 | 4.80 | 2.50 | 3.20 |

| Size | 2 to 5 | 3 to 2 | 3 to 3 | 3 to 4 | 3 to 5 | 4 to 3 |
|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|
| Hole Taper No. | 2 | 3 | 3 | 3 | 3 | 4 |
| Shank Taper No. | 5 | 2 | 3 | 4 | 5 | 3 |
| Length, Inches. | 9 $\frac{3}{8}$ | 7 $\frac{7}{8}$ | 8 $\frac{3}{8}$ | 9 $\frac{3}{8}$ | 10 $\frac{5}{8}$ | 9 $\frac{3}{8}$ |
| Wt. Each, Lbs. | 5 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 2 $\frac{5}{8}$ | 6 $\frac{1}{2}$ | 3 $\frac{1}{2}$ |
| Each | \$4.80 | 3.20 | 3.20 | 3.20 | 4.80 | 4.80 |

| Size | 4 to 4 | 4 to 5 | 4 to 6 | 5 to 4 | 5 to 5 | 5 to 6 |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Hole Taper No. | 4 | 4 | 4 | 5 | 5 | 5 |
| Shank Taper No. | 4 | 5 | 6 | 4 | 5 | 6 |
| Length, Inches. | 10 $\frac{3}{8}$ | 11 $\frac{1}{8}$ | 14 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 12 $\frac{1}{8}$ | 13 $\frac{3}{8}$ |
| Wt. Each, Lbs. | 4 $\frac{1}{2}$ | 6 | 15 $\frac{1}{2}$ | 8 $\frac{1}{4}$ | 10 | 15 $\frac{1}{2}$ |
| Each | \$4.80 | 4.80 | 12.00 | 12.00 | 12.00 | 12.00 |



No. 231—For Short Shanks

| Size | 1 to 2 | 1 to 3 | 2 to 3 | 2 to 4 | 3 to 4 |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Hole Taper No. | 1 | 1 | 2 | 2 | 3 |
| Shank Taper No. | 2 | 3 | 3 | 4 | 4 |
| Length, Inches. | 6 $\frac{1}{8}$ | 6 $\frac{3}{8}$ | 7 $\frac{1}{8}$ | 8 $\frac{1}{8}$ | 9 $\frac{1}{8}$ |
| Weight Each, Lbs. | $\frac{3}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | 2 $\frac{3}{8}$ |
| Each | \$2.00 | 2.50 | 2.50 | 3.20 | 3.20 |

| Size | 3 to 5 | 4 to 5 | 4 to 6 | 5 to 6 |
|-------------------|------------------|------------------|------------------|------------------|
| Hole Taper No. | 3 | 4 | 4 | 5 |
| Shank Taper No. | 5 | 5 | 6 | 6 |
| Length, Inches. | 10 $\frac{3}{8}$ | 11 $\frac{1}{8}$ | 14 | 15 $\frac{1}{2}$ |
| Weight Each, Lbs. | 6 $\frac{1}{8}$ | 6 | 15 $\frac{1}{2}$ | 15 $\frac{1}{2}$ |
| Each | \$4.80 | 4.80 | 12.00 | 12.00 |

Short Shank Sockets are for use with drills on which the original tangs have been broken, the shanks reduced in length and fitted with thicker and wider tangs, thus insuring a strong drive. Gauges for fitting drills with broken tangs to Short Shank Sockets can be furnished on receipt of order.

Shank is Morse Standard Taper. Hole only is for Short Shanks.

USE-EM-UP



No. 100A—For Taper Shank Tools

Drills with broken or twisted tangs can be used up by grinding a flat on remaining portion to fit the socket.

| Size | 1 to 2 | 1 to 3 | 2 to 3 |
|-------------------|---------------|-----------------|-----------------|
| Hole Taper No. | 1 | 1 | 2 |
| Shank Taper No. | 2 | 3 | 3 |
| Weight Each, Lbs. | $\frac{3}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |
| Each | \$2.00 | 2.50 | 2.50 |

| Size | 2 to 4 | 3 to 4 | 4 to 5 |
|-------------------|-----------------|-----------------|-----------------|
| Hole Taper No. | 2 | 3 | 4 |
| Shank Taper No. | 4 | 4 | 5 |
| Weight Each, Lbs. | 2 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | 6 $\frac{1}{4}$ |
| Each | \$3.20 | 3.20 | 4.80 |

As long as there is three-fourths of an inch of the shank left, it can be used in a Use-Em-Up socket.

DRILL SOCKETS

MORSE



No. 200—For Taper Shank Tools

Plugs are furnished with these sockets for turning shanks.

| Size | 1 | 2 | 3 |
|-------------------------|------------|----------|--------------|
| Hole Taper No. | 1 | 2 | 3 |
| Shank Diameter, Inches. | 1 1/8 | 1 1/4 | 1 1/2 |
| Shank Length, Inches. | 4 | 4 1/4 | 5 3/8 |
| Holds Drills, Inches. | 1/4 to 7/8 | 3/8 to 1 | 1/2 to 1 1/4 |
| Length, Inches | 7 | 8 | 10 |
| Each | \$1.20 | 1.80 | 2.50 |

| Size | 4 | 5 | 6 |
|-------------------------|------------|------------|------------|
| Hole Taper No. | 4 | 5 | 6 |
| Shank Diameter, Inches. | 2 | 2 5/8 | 3 3/8 |
| Shank Length, Inches. | 6 3/8 | 9 | 12 3/4 |
| Holds Drills, Inches. | 1 1/4 to 2 | 2 1/8 to 3 | 3 1/4 to 6 |
| Length, Inches | 12 | 16 | 22 |
| Each | \$4.00 | 7.50 | 14.00 |



No. 230—For Short Taper Shanks

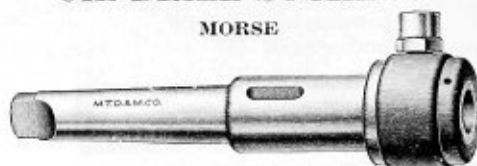
Plugs are furnished with these sockets for turning shanks.

| Size | 1 | 2 | 3 |
|-------------------------|------------|----------|--------------|
| Hole Taper No. | 1 | 2 | 3 |
| Shank Diameter, Inches. | 1 1/8 | 1 1/4 | 1 1/2 |
| Shank Length, Inches. | 4 | 4 1/4 | 5 3/8 |
| Holds Drills, Inches. | 1/4 to 7/8 | 3/8 to 1 | 1/2 to 1 1/4 |
| Length, Inches | 7 | 8 | 10 |
| Each | \$1.20 | 1.80 | 2.50 |

| Size | 4 | 5 | 6 |
|-------------------------|------------|------------|------------|
| Hole Taper No. | 4 | 5 | 6 |
| Shank Diameter, Inches. | 2 | 2 5/8 | 3 3/8 |
| Shank Length, Inches. | 6 3/8 | 9 | 12 3/4 |
| Holds Drills, Inches. | 1 1/4 to 2 | 2 1/8 to 3 | 3 1/4 to 6 |
| Length, Inches | 12 | 16 | 22 |
| Each | \$4.00 | 7.50 | 14.00 |

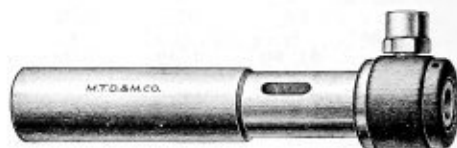
OIL DRILL SOCKETS

MORSE



No. 221—Taper Shank

| Size | 1 to 2 | 1 to 3 | 2 to 3 | 2 to 4 | 3 to 4 | 4 to 5 |
|-----------------|--------|--------|--------|--------|--------|--------|
| Hole Taper No. | 1 | 1 | 2 | 2 | 3 | 4 |
| Shank Taper No. | 2 | 3 | 3 | 4 | 4 | 5 |
| Length, Inches. | 6 1/2 | 6 3/4 | 7 1/2 | 8 1/2 | 9 3/4 | 11 3/4 |
| Each | \$4.50 | 4.50 | 5.50 | 6.75 | 7.00 | 10.00 |



No. 220—Blank End

| Size | 1 | 2 | 3 |
|-------------------------|------------|----------|--------------|
| Hole Taper No. | 1 | 2 | 3 |
| Shank Diameter, Inches. | 1 1/8 | 1 1/4 | 1 1/2 |
| Shank Length, Inches. | 4 | 4 1/4 | 5 3/8 |
| Holds Drills, Inches. | 1/4 to 7/8 | 3/8 to 1 | 1/2 to 1 1/4 |
| Length, Inches | 7 | 8 | 10 |
| Each | \$4.00 | 5.00 | 6.50 |

| Size | 4 | 5 |
|-------------------------|------------|------------|
| Hole Taper No. | 4 | 5 |
| Holds Drills, Inches. | 1 1/4 to 2 | 2 1/8 to 3 |
| Shank Diameter, Inches. | 2 | 2 5/8 |
| Shank Length, Inches. | 6 3/8 | 9 |
| Length, Inches | 12 | 16 |
| Each | \$9.25 | 10.25 |

DRILL DRIFTS

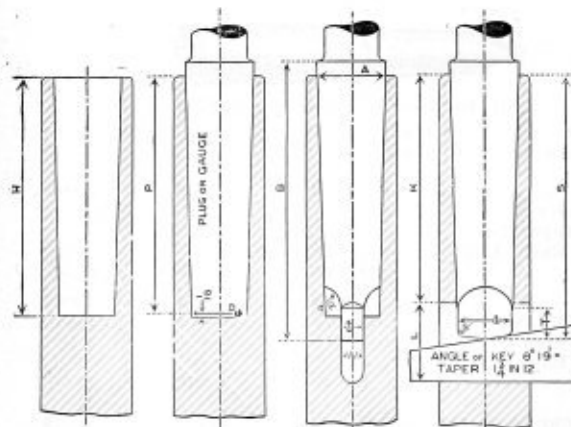
MORSE



No. 210—Drop Forged Steel, Finished and Hardened

| Size | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------------------|--------|-----|-----|-----|-----|-----|
| For S'ive or Socket No. | 1 | 2 | 3 | 4 | 5 | 6 |
| Each | \$0.30 | .35 | .40 | .50 | .60 | .75 |

MORSE TAPERS



| No. of Taper | Diam. of Plug at Small End | Diam. at End of Socket | Shank | | Depth of Hole | Standard Plug Depth | Tongue | | | | | Keyway | | | Taper Per Foot |
|--------------|----------------------------|------------------------|-----------------------|-------------|---------------|---------------------|---------------------|------------------|-------------------------|-----------------|------------------|-----------------|------------------|-------------------------|----------------|
| | | | Whole L'gth. of Shank | Shank Depth | | | Thickness of Tongue | Length of Tongue | Rad. of Mill for Tongue | Diam. of Tongue | Radius of Tongue | Width of Keyway | Length of Keyway | End of Socket to Keyway | |
| | D | A | B | S | H | P | t | T | R | d | a | W | L | K | |
| 0 | .252 | .3561 | 2 1/8 | 2 3/8 | 2 1/2 | 2 | .1562 | 1/4 | 3/8 | .235 | .04 | .160 | 1/8 | 1 1/8 | .62460 |
| 1 | .369 | .475 | 2 3/8 | 2 5/8 | 2 3/8 | 2 1/4 | .2031 | 3/8 | 1/2 | .343 | .05 | .213 | 3/8 | 2 1/8 | .59853 |
| 2 | .572 | .706 | 3 1/8 | 2 1/2 | 2 3/8 | 2 3/8 | .250 | 1/2 | 3/4 | .44 | .06 | .260 | 1/2 | 3 1/8 | .59941 |
| 3 | .778 | .938 | 3 3/8 | 3 1/8 | 3 1/4 | 3 3/8 | .3125 | 3/4 | 1 | .58 | .08 | .322 | 1 1/8 | 3 3/8 | .60235 |
| 4 | 1.020 | 1.231 | 4 1/8 | 4 1/8 | 4 1/4 | 4 1/8 | .4687 | 1 | 1 1/8 | .81 | .10 | .478 | 1 1/4 | 4 1/8 | .62326 |
| 5 | 1.475 | 1.748 | 5 1/8 | 5 1/8 | 5 1/4 | 5 1/8 | .6250 | 1 1/8 | 1 3/8 | 1.18 | .12 | .635 | 1 1/2 | 5 1/8 | .63151 |
| 6 | 2.116 | 2.494 | 6 3/8 | 6 3/8 | 6 3/4 | 6 3/8 | .750 | 1 3/8 | 2 | 1.5 | .15 | .760 | 1 3/4 | 6 3/8 | .62565 |
| 7 | 2.750 | 3.270 | 7 1/8 | 7 1/8 | 7 1/4 | 7 1/8 | 1.1250 | 2 | 2 1/2 | 2.38 | .18 | 1.135 | 2 1/8 | 7 1/8 | .6240 |

TWIST DRILLS

MORSE TAPER SHANK



No. 302—Carbon Steel

| Diam., Inches | Carbon Steel Each | Length, Inches | Twist Cut, Inches | Decimal Equiv- alent | Taper Shank | Diam., Inches | Carbon Steel Each | Length, Inches | Twist Cut, Inches | Decimal Equiv- alent | Taper Shank |
|------------------|-------------------------|-------------------|-------------------------|----------------------------|----------------|------------------|-------------------------|-------------------|-------------------------|----------------------------|----------------|
| $\frac{1}{16}$ | \$0.45 | 5 $\frac{1}{8}$ | 2 $\frac{3}{8}$ | .125 | No. 1 | $\frac{1}{16}$ | \$4.75 | 11 $\frac{7}{8}$ | 7 $\frac{1}{4}$ | 1.1562 | No. 2 |
| $\frac{3}{32}$ | .45 | 5 $\frac{1}{4}$ | 2 $\frac{3}{8}$ | .1406 | | $\frac{1}{8}$ | 5.00 | 12 | 7 $\frac{3}{8}$ | 1.1718 | |
| $\frac{1}{4}$ | .45 | 5 $\frac{3}{8}$ | 2 $\frac{3}{8}$ | .1562 | | $\frac{1}{4}$ | 5.00 | 12 | 7 $\frac{3}{8}$ | 1.1875 | |
| $\frac{5}{16}$ | .50 | 5 $\frac{1}{2}$ | 2 $\frac{3}{8}$ | .1718 | | $\frac{3}{16}$ | 5.25 | 12 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | 1.2031 | |
| $\frac{3}{8}$ | .50 | 5 $\frac{3}{4}$ | 2 $\frac{3}{8}$ | .1875 | | $\frac{1}{2}$ | 5.25 | 12 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | 1.2187 | |
| $\frac{7}{16}$ | .55 | 5 $\frac{3}{4}$ | 2 $\frac{3}{8}$ | .2031 | | $\frac{5}{16}$ | 5.50 | 12 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | 1.2343 | |
| $\frac{1}{2}$ | .55 | 6 | 3 | .2187 | | $\frac{3}{4}$ | 5.50 | 12 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | 1.25 | |
| $\frac{9}{16}$ | .60 | 6 $\frac{1}{8}$ | 3 | .2343 | | $\frac{7}{8}$ | 5.75 | 14 $\frac{1}{8}$ | 8 $\frac{1}{2}$ | 1.2656 | |
| $\frac{5}{8}$ | .60 | 6 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | .25 | | $\frac{15}{16}$ | 5.75 | 14 $\frac{1}{8}$ | 8 $\frac{1}{2}$ | 1.2812 | |
| $\frac{11}{16}$ | .65 | 6 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | .2656 | | $\frac{15}{16}$ | 6.00 | 14 $\frac{1}{4}$ | 8 $\frac{3}{8}$ | 1.2968 | |
| $\frac{3}{4}$ | .65 | 6 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | .2812 | | $\frac{15}{16}$ | 6.00 | 14 $\frac{1}{4}$ | 8 $\frac{3}{8}$ | 1.3125 | |
| $\frac{13}{16}$ | .70 | 6 $\frac{3}{8}$ | 3 $\frac{1}{8}$ | .2968 | | $\frac{15}{16}$ | 6.25 | 14 $\frac{3}{8}$ | 8 $\frac{3}{8}$ | 1.3281 | |
| $\frac{7}{8}$ | .70 | 6 $\frac{3}{8}$ | 3 $\frac{1}{8}$ | .3125 | | $\frac{15}{16}$ | 6.25 | 14 $\frac{3}{8}$ | 8 $\frac{3}{8}$ | 1.3437 | |
| $\frac{15}{16}$ | .75 | 6 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | .3281 | | $\frac{15}{16}$ | 6.50 | 14 $\frac{3}{8}$ | 8 $\frac{3}{8}$ | 1.3593 | |
| $\frac{15}{16}$ | .75 | 6 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | .3437 | | $\frac{15}{16}$ | 6.50 | 14 $\frac{3}{8}$ | 8 $\frac{3}{8}$ | 1.375 | |
| $\frac{15}{16}$ | .80 | 6 $\frac{3}{4}$ | 3 $\frac{1}{8}$ | .3593 | | $\frac{15}{16}$ | 7.00 | 14 $\frac{3}{8}$ | 9 | 1.3906 | |
| $\frac{15}{16}$ | .80 | 6 $\frac{3}{4}$ | 3 $\frac{1}{8}$ | .375 | | $\frac{15}{16}$ | 7.00 | 14 $\frac{3}{8}$ | 9 | 1.4062 | |
| $\frac{15}{16}$ | .90 | 7 | 3 $\frac{1}{8}$ | .3906 | | $\frac{15}{16}$ | 7.50 | 14 $\frac{3}{8}$ | 9 $\frac{1}{8}$ | 1.4218 | |
| $\frac{15}{16}$ | .90 | 7 | 3 $\frac{1}{8}$ | .4062 | | $\frac{15}{16}$ | 7.50 | 14 $\frac{3}{8}$ | 9 $\frac{1}{8}$ | 1.4375 | |
| $\frac{15}{16}$ | 1.00 | 7 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | .4218 | | $\frac{15}{16}$ | 8.00 | 14 $\frac{3}{8}$ | 9 $\frac{1}{8}$ | 1.4531 | |
| $\frac{15}{16}$ | 1.00 | 7 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | .4375 | | $\frac{15}{16}$ | 8.00 | 14 $\frac{3}{8}$ | 9 $\frac{1}{8}$ | 1.4687 | |
| $\frac{15}{16}$ | 1.10 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | .4531 | No. 2 | $\frac{15}{16}$ | 8.50 | 15 | 9 $\frac{1}{8}$ | 1.4843 | No. 4 |
| $\frac{15}{16}$ | 1.10 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | .4687 | | $\frac{15}{16}$ | 8.50 | 15 | 9 $\frac{1}{8}$ | 1.5 | |
| $\frac{15}{16}$ | 1.20 | 7 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | .4843 | | $\frac{15}{16}$ | 9.00 | 15 | 9 $\frac{1}{8}$ | 1.5156 | |
| $\frac{15}{16}$ | 1.20 | 7 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | .5 | | $\frac{15}{16}$ | 9.00 | 15 | 9 $\frac{1}{8}$ | 1.5312 | |
| $\frac{15}{16}$ | 1.30 | 8 | 4 $\frac{1}{8}$ | .5156 | | $\frac{15}{16}$ | 9.50 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.5468 | |
| $\frac{15}{16}$ | 1.30 | 8 | 4 $\frac{1}{8}$ | .5312 | | $\frac{15}{16}$ | 9.50 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.5625 | |
| $\frac{15}{16}$ | 1.40 | 8 $\frac{1}{4}$ | 4 $\frac{1}{8}$ | .5468 | | $\frac{15}{16}$ | 10.00 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.5781 | |
| $\frac{15}{16}$ | 1.40 | 8 $\frac{1}{4}$ | 4 $\frac{1}{8}$ | .5625 | | $\frac{15}{16}$ | 10.00 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.5937 | |
| $\frac{15}{16}$ | 1.50 | 8 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | .5781 | | $\frac{15}{16}$ | 10.50 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.6093 | |
| $\frac{15}{16}$ | 1.50 | 8 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | .5937 | | $\frac{15}{16}$ | 10.50 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.625 | |
| $\frac{15}{16}$ | 1.60 | 8 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | .6093 | | $\frac{15}{16}$ | 11.00 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.6406 | |
| $\frac{15}{16}$ | 1.60 | 8 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | .625 | | $\frac{15}{16}$ | 11.00 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.6562 | |
| $\frac{15}{16}$ | 1.70 | 9 | 5 $\frac{1}{8}$ | .6406 | | $\frac{15}{16}$ | 11.50 | 15 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | 1.6718 | |
| $\frac{15}{16}$ | 1.70 | 9 | 5 $\frac{1}{8}$ | .6562 | | $\frac{15}{16}$ | 11.50 | 15 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | 1.6875 | |
| $\frac{15}{16}$ | 1.80 | 9 $\frac{1}{4}$ | 5 $\frac{1}{8}$ | .6718 | | $\frac{15}{16}$ | 12.00 | 15 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | 1.7031 | |
| $\frac{15}{16}$ | 1.80 | 9 $\frac{1}{4}$ | 5 $\frac{1}{8}$ | .6875 | | $\frac{15}{16}$ | 12.00 | 15 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.7187 | |
| $\frac{15}{16}$ | 1.90 | 9 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | .7031 | | $\frac{15}{16}$ | 12.50 | 16 | 9 $\frac{1}{8}$ | 1.7343 | |
| $\frac{15}{16}$ | 1.90 | 9 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | .7187 | | $\frac{15}{16}$ | 12.50 | 16 | 9 $\frac{1}{8}$ | 1.75 | |
| $\frac{15}{16}$ | 2.00 | 9 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | .7343 | | $\frac{15}{16}$ | 13.25 | 16 | 9 $\frac{1}{8}$ | 1.7812 | |
| $\frac{15}{16}$ | 2.00 | 9 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | .75 | | $\frac{15}{16}$ | 14.00 | 16 $\frac{1}{4}$ | 10 $\frac{1}{8}$ | 1.8125 | |
| $\frac{15}{16}$ | 2.10 | 9 $\frac{3}{4}$ | 6 | .7656 | No. 3 | $\frac{15}{16}$ | 14.75 | 16 $\frac{1}{4}$ | 10 $\frac{1}{8}$ | 1.8437 | No. 5 |
| $\frac{15}{16}$ | 2.10 | 9 $\frac{3}{4}$ | 6 | .7812 | | $\frac{15}{16}$ | 15.50 | 16 $\frac{1}{4}$ | 10 $\frac{1}{8}$ | 1.875 | |
| $\frac{15}{16}$ | 2.20 | 10 | 6 $\frac{1}{8}$ | .7968 | | $\frac{15}{16}$ | 16.25 | 16 $\frac{1}{4}$ | 10 $\frac{1}{8}$ | 1.9062 | |
| $\frac{15}{16}$ | 2.20 | 10 | 6 $\frac{1}{8}$ | .8125 | | $\frac{15}{16}$ | 17.00 | 16 $\frac{1}{4}$ | 10 $\frac{1}{8}$ | 1.9375 | |
| $\frac{15}{16}$ | 2.40 | 10 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | .8281 | | $\frac{15}{16}$ | 17.75 | 16 $\frac{1}{4}$ | 10 $\frac{1}{8}$ | 1.9687 | |
| $\frac{15}{16}$ | 2.40 | 10 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | .8437 | | 2 | 18.50 | 16 $\frac{1}{4}$ | 10 $\frac{1}{8}$ | 2. | |
| $\frac{15}{16}$ | 2.60 | 10 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | .8593 | | 2 $\frac{1}{8}$ | 19.25 | 16 $\frac{1}{4}$ | 9 $\frac{1}{8}$ | 2.0312 | |
| $\frac{15}{16}$ | 2.60 | 10 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | .875 | | 2 $\frac{1}{8}$ | 20.00 | 17 | 10 | 2.0625 | |
| $\frac{15}{16}$ | 2.80 | 10 $\frac{3}{4}$ | 6 $\frac{1}{8}$ | .8906 | | 2 $\frac{1}{8}$ | 20.75 | 17 | 10 | 2.0937 | |
| $\frac{15}{16}$ | 2.80 | 10 $\frac{3}{4}$ | 6 $\frac{1}{8}$ | .9062 | | 2 $\frac{1}{8}$ | 21.50 | 17 | 10 | 2.125 | |
| $\frac{15}{16}$ | 3.00 | 10 $\frac{3}{4}$ | 6 $\frac{1}{8}$ | .9218 | | 2 $\frac{1}{8}$ | 22.25 | 17 | 10 | 2.1562 | |
| $\frac{15}{16}$ | 3.00 | 10 $\frac{3}{4}$ | 6 $\frac{1}{8}$ | .9375 | | 2 $\frac{1}{8}$ | 23.00 | 17 | 10 | 2.1875 | |
| $\frac{15}{16}$ | 3.25 | 10 $\frac{3}{4}$ | 6 $\frac{1}{4}$ | .9531 | | 2 $\frac{1}{8}$ | 23.75 | 17 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | 2.2187 | |
| $\frac{15}{16}$ | 3.25 | 10 $\frac{3}{4}$ | 6 $\frac{1}{4}$ | .9687 | | 2 $\frac{1}{8}$ | 24.50 | 17 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | 2.25 | |
| $\frac{15}{16}$ | 3.50 | 11 | 6 $\frac{1}{4}$ | .9843 | | 2 $\frac{1}{8}$ | 26.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | 2.3125 | |
| 1 | 3.50 | 11 | 6 $\frac{1}{4}$ | 1. | | 2 $\frac{1}{8}$ | 27.50 | 18 | 10 $\frac{1}{8}$ | 2.375 | |
| 1 $\frac{1}{8}$ | 3.75 | 11 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | 1.0156 | | 2 $\frac{1}{8}$ | 29.00 | 18 $\frac{1}{2}$ | 11 | 2.4375 | |
| 1 $\frac{1}{8}$ | 3.75 | 11 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | 1.0312 | | 2 $\frac{1}{8}$ | 30.50 | 19 | 11 $\frac{3}{8}$ | 2.5 | |
| 1 $\frac{1}{8}$ | 4.00 | 11 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 1.0468 | | 2 $\frac{1}{8}$ | 32.00 | 19 $\frac{1}{4}$ | 11 $\frac{3}{8}$ | 2.5625 | |
| 1 $\frac{1}{8}$ | 4.00 | 11 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 1.0625 | | 2 $\frac{1}{8}$ | 34.00 | 19 $\frac{1}{4}$ | 11 $\frac{3}{8}$ | 2.625 | |
| 1 $\frac{1}{8}$ | 4.25 | 11 $\frac{1}{2}$ | 6 $\frac{3}{4}$ | 1.0781 | | 2 $\frac{1}{8}$ | 36.00 | 20 | 12 $\frac{1}{4}$ | 2.6875 | |
| 1 $\frac{1}{8}$ | 4.25 | 11 $\frac{1}{2}$ | 6 $\frac{3}{4}$ | 1.0937 | | 2 $\frac{1}{8}$ | 38.00 | 20 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 2.75 | |
| 1 $\frac{1}{8}$ | 4.50 | 11 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.1093 | | 2 $\frac{1}{8}$ | 40.50 | 20 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 2.8125 | |
| 1 $\frac{1}{8}$ | 4.50 | 11 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.125 | | 2 $\frac{1}{8}$ | 43.00 | 21 | 13 | 2.875 | |
| 1 $\frac{1}{8}$ | 4.75 | 11 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.1406 | | 2 $\frac{1}{8}$ | 45.50 | 21 | 13 | 2.9375 | |
| 1 $\frac{1}{8}$ | 4.75 | 11 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.1406 | | 3 | 48.00 | 22 | 13 $\frac{3}{8}$ | 3. | |

Note—For Drills with Special Size Shanks, See Page 5.

TWIST DRILLS

MORSE TAPER SHANK



No. 1302—High Speed Steel

| Diam., Inches | High Speed Steel Each | Length, Inches | Twist Cut, Inches | Decimal Equiva- lent | Taper Shank | Diam., Inches | High Speed Steel Each | Length, Inches | Twist Cut, Inches | Decimal Equiva- lent | Taper Shank |
|------------------|--------------------------------|-------------------|-------------------------|----------------------------|----------------|------------------|--------------------------------|-------------------|-------------------------|----------------------------|----------------|
| $\frac{1}{8}$ | \$0.90 | 5 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | .125 | No. 1 | $\frac{1}{8}$ | \$ 8.90 | 12 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.1562 | No. 4 |
| $\frac{3}{16}$ | .90 | 5 $\frac{3}{8}$ | 1 $\frac{3}{8}$ | .1406 | | $\frac{1}{4}$ | 9.50 | 13 | 7 $\frac{3}{8}$ | 1.1718 | |
| $\frac{1}{2}$ | .90 | 5 $\frac{3}{8}$ | 1 $\frac{3}{8}$ | .1562 | | $\frac{1}{2}$ | 9.50 | 13 | 7 $\frac{3}{8}$ | 1.1875 | |
| $\frac{5}{8}$ | .90 | 5 $\frac{3}{8}$ | 2 $\frac{1}{4}$ | .1718 | | $\frac{3}{4}$ | 10.15 | 13 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | 1.2031 | |
| $\frac{3}{4}$ | .90 | 5 $\frac{3}{8}$ | 2 $\frac{1}{4}$ | .1875 | | $\frac{7}{8}$ | 10.15 | 13 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | 1.2187 | |
| 1.00 | 1.00 | 6 | 2 $\frac{1}{2}$ | .2031 | | 1 | 10.75 | 13 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | 1.2343 | |
| 1 $\frac{1}{8}$ | 1.00 | 6 | 2 $\frac{1}{2}$ | .2187 | | 1 $\frac{1}{8}$ | 10.75 | 13 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | 1.25 | |
| 1 $\frac{1}{4}$ | 1.10 | 6 $\frac{1}{8}$ | 2 $\frac{3}{4}$ | .2343 | | 1 $\frac{1}{4}$ | 11.50 | 14 $\frac{1}{8}$ | 8 $\frac{1}{2}$ | 1.2656 | |
| 1 $\frac{3}{8}$ | 1.10 | 6 $\frac{1}{8}$ | 2 $\frac{3}{4}$ | .25 | | 1 $\frac{3}{8}$ | 11.50 | 14 $\frac{1}{8}$ | 8 $\frac{1}{2}$ | 1.2812 | |
| 1 $\frac{1}{2}$ | 1.20 | 6 $\frac{1}{8}$ | 2 $\frac{3}{4}$ | .2656 | | 1 $\frac{1}{2}$ | 12.25 | 14 $\frac{1}{4}$ | 8 $\frac{3}{8}$ | 1.2968 | |
| 1 $\frac{3}{4}$ | 1.20 | 6 $\frac{1}{8}$ | 2 $\frac{3}{4}$ | .2812 | | 1 $\frac{3}{4}$ | 12.25 | 14 $\frac{1}{4}$ | 8 $\frac{3}{8}$ | 1.3125 | |
| 1 $\frac{7}{8}$ | 1.30 | 6 $\frac{3}{8}$ | 3 | .2968 | | 1 $\frac{7}{8}$ | 13.00 | 14 $\frac{3}{8}$ | 8 $\frac{3}{4}$ | 1.3281 | |
| 2.00 | 1.30 | 6 $\frac{3}{8}$ | 3 | .3125 | | 2 | 13.00 | 14 $\frac{3}{8}$ | 8 $\frac{3}{4}$ | 1.3437 | |
| 2 $\frac{1}{8}$ | 1.40 | 6 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | .3281 | | 2 $\frac{1}{8}$ | 13.75 | 14 $\frac{3}{8}$ | 8 $\frac{3}{4}$ | 1.3593 | |
| 2 $\frac{1}{4}$ | 1.40 | 6 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | .3437 | | 2 $\frac{1}{4}$ | 13.75 | 14 $\frac{3}{8}$ | 8 $\frac{3}{4}$ | 1.375 | |
| 2 $\frac{3}{8}$ | 1.50 | 6 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | .3593 | | 2 $\frac{3}{8}$ | 14.65 | 14 $\frac{3}{8}$ | 9 | 1.3906 | |
| 2 $\frac{1}{2}$ | 1.50 | 6 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | .375 | | 2 $\frac{1}{2}$ | 14.65 | 14 $\frac{3}{8}$ | 9 | 1.4062 | |
| 2 $\frac{5}{8}$ | 1.65 | 7 | 3 $\frac{3}{4}$ | .3906 | No. 2 | 2 $\frac{5}{8}$ | 15.50 | 14 $\frac{3}{8}$ | 9 $\frac{1}{4}$ | 1.4218 | No. 5 |
| 3.00 | 1.65 | 7 | 3 $\frac{3}{4}$ | .4062 | | 3 | 15.50 | 14 $\frac{3}{8}$ | 9 $\frac{1}{4}$ | 1.4375 | |
| 3 $\frac{1}{8}$ | 1.75 | 7 $\frac{1}{4}$ | 3 $\frac{3}{4}$ | .4218 | | 3 $\frac{1}{8}$ | 16.40 | 14 $\frac{3}{8}$ | 9 $\frac{1}{4}$ | 1.4531 | |
| 3 $\frac{1}{4}$ | 1.75 | 7 $\frac{1}{4}$ | 3 $\frac{3}{4}$ | .4375 | | 3 $\frac{1}{4}$ | 16.40 | 14 $\frac{3}{8}$ | 9 $\frac{1}{4}$ | 1.4687 | |
| 3 $\frac{1}{2}$ | 1.90 | 7 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | .4531 | | 3 $\frac{1}{2}$ | 17.25 | 15 | 9 $\frac{3}{8}$ | 1.4843 | |
| 3 $\frac{3}{8}$ | 1.90 | 7 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | .4687 | | 3 $\frac{3}{8}$ | 17.25 | 15 | 9 $\frac{3}{8}$ | 1.5 | |
| 4.00 | 2.00 | 8 $\frac{1}{4}$ | 4 $\frac{3}{4}$ | .4843 | | 4 | 18.15 | 16 $\frac{3}{8}$ | 9 $\frac{3}{8}$ | 1.5156 | |
| 4 $\frac{1}{8}$ | 2.00 | 8 $\frac{1}{4}$ | 4 $\frac{3}{4}$ | .5 | | 4 $\frac{1}{8}$ | 18.15 | 16 $\frac{3}{8}$ | 9 $\frac{3}{8}$ | 1.5312 | |
| 4 $\frac{1}{4}$ | 2.15 | 8 $\frac{1}{2}$ | 4 $\frac{3}{4}$ | .5156 | | 4 $\frac{1}{4}$ | 19.00 | 16 $\frac{3}{8}$ | 9 $\frac{3}{8}$ | 1.5468 | |
| 4 $\frac{3}{8}$ | 2.15 | 8 $\frac{1}{2}$ | 4 $\frac{3}{4}$ | .5312 | | 4 $\frac{3}{8}$ | 19.00 | 16 $\frac{3}{8}$ | 9 $\frac{3}{8}$ | 1.5625 | |
| 4 $\frac{1}{2}$ | 2.25 | 8 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | .5468 | | 4 $\frac{1}{2}$ | 20.00 | 16 $\frac{3}{8}$ | 9 $\frac{3}{8}$ | 1.5781 | |
| 4 $\frac{3}{4}$ | 2.25 | 8 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | .5625 | | 4 $\frac{3}{4}$ | 20.00 | 16 $\frac{3}{8}$ | 9 $\frac{3}{8}$ | 1.5937 | |
| 5.00 | 2.40 | 8 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | .5781 | | 5 | 21.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.6093 | |
| 5 $\frac{1}{8}$ | 2.40 | 8 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | .5937 | | 5 $\frac{1}{8}$ | 21.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.625 | |
| 5 $\frac{1}{4}$ | 2.50 | 8 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | .6093 | | 5 $\frac{1}{4}$ | 22.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.6406 | |
| 5 $\frac{3}{8}$ | 2.50 | 8 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | .625 | | 5 $\frac{3}{8}$ | 22.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.6562 | |
| 6.00 | 2.75 | 9 | 5 $\frac{1}{4}$ | .6406 | No. 3 | 6 | 23.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.6718 | No. 6 |
| 6 $\frac{1}{8}$ | 2.75 | 9 | 5 $\frac{1}{4}$ | .6562 | | 6 $\frac{1}{8}$ | 23.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.6875 | |
| 6 $\frac{1}{4}$ | 3.00 | 9 $\frac{1}{4}$ | 5 $\frac{3}{4}$ | .6718 | | 6 $\frac{1}{4}$ | 24.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.7031 | |
| 6 $\frac{1}{2}$ | 3.00 | 9 $\frac{1}{4}$ | 5 $\frac{3}{4}$ | .6875 | | 6 $\frac{1}{2}$ | 24.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.7187 | |
| 6 $\frac{3}{8}$ | 3.25 | 9 $\frac{1}{2}$ | 5 $\frac{3}{4}$ | .7031 | | 6 $\frac{3}{8}$ | 25.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.7343 | |
| 6 $\frac{1}{2}$ | 3.25 | 9 $\frac{1}{2}$ | 5 $\frac{3}{4}$ | .7187 | | 6 $\frac{1}{2}$ | 25.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.75 | |
| 7.00 | 3.50 | 9 $\frac{3}{4}$ | 5 $\frac{3}{4}$ | .7343 | | 7 | 26.25 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.7812 | |
| 7 $\frac{1}{8}$ | 3.50 | 9 $\frac{3}{4}$ | 5 $\frac{3}{4}$ | .75 | | 7 $\frac{1}{8}$ | 27.50 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.8125 | |
| 7 $\frac{1}{4}$ | 3.75 | 9 $\frac{3}{4}$ | 6 | .7656 | | 7 $\frac{1}{4}$ | 28.75 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.8437 | |
| 7 $\frac{3}{8}$ | 3.75 | 9 $\frac{3}{4}$ | 6 | .7812 | | 7 $\frac{3}{8}$ | 30.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.875 | |
| 8.00 | 4.00 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .7968 | | 8 | 31.25 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.9062 | |
| 8 $\frac{1}{8}$ | 4.00 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .8125 | | 8 $\frac{1}{8}$ | 32.50 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.9375 | |
| 8 $\frac{1}{4}$ | 4.40 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .8281 | | 8 $\frac{1}{4}$ | 33.75 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 1.9687 | |
| 8 $\frac{1}{2}$ | 4.40 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .8437 | | 8 $\frac{1}{2}$ | 35.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2 | |
| 9.00 | 4.75 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .8593 | No. 4 | 9 | 36.25 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.0312 | No. 7 |
| 9 $\frac{1}{8}$ | 4.75 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .875 | | 9 $\frac{1}{8}$ | 37.50 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.0625 | |
| 9 $\frac{1}{4}$ | 5.15 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .8906 | | 9 $\frac{1}{4}$ | 38.75 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.0937 | |
| 9 $\frac{3}{8}$ | 5.15 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .9062 | | 9 $\frac{3}{8}$ | 40.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.125 | |
| 9 $\frac{1}{2}$ | 5.50 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .9218 | | 9 $\frac{1}{2}$ | 41.25 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.1562 | |
| 10.00 | 5.50 | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | .9375 | | 10 | 42.50 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.1875 | |
| 10 $\frac{1}{8}$ | 5.90 | 11 | 6 $\frac{3}{4}$ | .9531 | | 10 $\frac{1}{8}$ | 43.75 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.2187 | |
| 10 $\frac{1}{4}$ | 5.90 | 11 | 6 $\frac{3}{4}$ | .9687 | | 10 $\frac{1}{4}$ | 45.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.25 | |
| 10 $\frac{3}{8}$ | 6.25 | 11 | 6 $\frac{3}{4}$ | .9843 | | 10 $\frac{3}{8}$ | 50.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.3125 | |
| 11.00 | 6.25 | 11 | 6 $\frac{3}{4}$ | 1 | | 11 | 55.00 | 17 $\frac{1}{8}$ | 10 $\frac{1}{4}$ | 2.375 | |
| 11 $\frac{1}{8}$ | 6.75 | 11 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 1.0156 | | 11 $\frac{1}{8}$ | 60.00 | 18 $\frac{3}{8}$ | 11 $\frac{1}{4}$ | 2.4375 | |
| 11 $\frac{1}{4}$ | 6.75 | 11 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 1.0312 | | 11 $\frac{1}{4}$ | 65.00 | 18 $\frac{3}{8}$ | 11 $\frac{1}{4}$ | 2.5 | |
| 11 $\frac{3}{8}$ | 7.25 | 11 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 1.0468 | | 11 $\frac{3}{8}$ | 70.00 | 19 $\frac{1}{4}$ | 11 $\frac{3}{8}$ | 2.5625 | |
| 12.00 | 7.25 | 11 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 1.0625 | | 12 | 75.00 | 19 $\frac{1}{4}$ | 11 $\frac{3}{8}$ | 2.625 | |
| 12 $\frac{1}{8}$ | 7.75 | 12 $\frac{1}{2}$ | 6 $\frac{3}{4}$ | 1.0781 | No. 5 | 12 $\frac{1}{8}$ | 80.00 | 20 $\frac{3}{8}$ | 12 $\frac{1}{4}$ | 2.6875 | No. 8 |
| 12 $\frac{1}{4}$ | 7.75 | 12 $\frac{1}{2}$ | 6 $\frac{3}{4}$ | 1.0937 | | 12 $\frac{1}{4}$ | 85.00 | 20 $\frac{3}{8}$ | 12 $\frac{1}{4}$ | 2.75 | |
| 12 $\frac{3}{8}$ | 8.25 | 12 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.1093 | | 12 $\frac{3}{8}$ | 90.00 | 21 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 2.8125 | |
| 13.00 | 8.25 | 12 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.125 | | 13 | 95.00 | 21 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 2.875 | |
| 13 $\frac{1}{8}$ | 8.90 | 12 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.1406 | | 13 $\frac{1}{8}$ | 100.00 | 21 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 2.9375 | |
| 14.00 | 8.90 | 12 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | 1.1406 | | 14 | 105.00 | 21 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 3 | |

Note—For Drills with Special Size Shanks See Page 5.

TWIST DRILLS

MORSE TAPER SHANK



SHANKS LARGER THAN REGULAR

No. 303—Carbon Steel

| Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank | Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank | Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank |
|-----------------|--------|-----------------|-----------------|-------------|-----------------|--------|------------------|-----------------|-------------|-----------------|--------|------------------|-----------------|-------------|
| $\frac{1}{16}$ | \$1.40 | 6 $\frac{1}{2}$ | 2 $\frac{5}{8}$ | No. 2 | $\frac{1}{8}$ | \$2.50 | 9 $\frac{1}{2}$ | 4 $\frac{3}{8}$ | No. 3 | $1 \frac{1}{8}$ | \$5.40 | 12 | 6 $\frac{3}{8}$ | No. 4 |
| $\frac{3}{32}$ | 1.40 | 6 $\frac{3}{4}$ | 2 $\frac{7}{8}$ | | $\frac{5}{16}$ | 2.50 | 9 $\frac{1}{2}$ | 4 $\frac{3}{8}$ | | $1 \frac{1}{4}$ | 5.60 | 12 $\frac{1}{4}$ | 6 $\frac{3}{8}$ | |
| $\frac{1}{4}$ | 1.40 | 6 $\frac{3}{4}$ | 2 $\frac{7}{8}$ | | $\frac{3}{8}$ | 2.50 | 9 $\frac{1}{2}$ | 5 | | $1 \frac{3}{8}$ | 5.60 | 12 $\frac{1}{4}$ | 6 $\frac{3}{8}$ | |
| $\frac{5}{16}$ | 1.40 | 7 | 3 $\frac{1}{8}$ | | $\frac{7}{16}$ | 2.50 | 9 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | | $1 \frac{1}{2}$ | 5.80 | 12 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | |
| $\frac{3}{8}$ | 1.40 | 7 | 3 $\frac{1}{8}$ | | $\frac{1}{2}$ | 2.60 | 9 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | | $1 \frac{3}{4}$ | 5.80 | 12 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | |
| $\frac{7}{16}$ | 1.40 | 7 $\frac{1}{4}$ | 3 $\frac{3}{8}$ | | $\frac{9}{16}$ | 2.60 | 9 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | | $1 \frac{7}{8}$ | 6.00 | 12 $\frac{3}{4}$ | 7 $\frac{1}{8}$ | |
| $\frac{1}{2}$ | 1.40 | 7 $\frac{1}{4}$ | 3 $\frac{3}{8}$ | | $\frac{5}{8}$ | 2.70 | 9 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | | $1 \frac{1}{2}$ | 6.00 | 12 $\frac{3}{4}$ | 7 $\frac{1}{8}$ | |
| $\frac{9}{16}$ | 1.40 | 7 $\frac{1}{2}$ | 3 $\frac{5}{8}$ | | $\frac{3}{4}$ | 2.70 | 9 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | | $1 \frac{3}{4}$ | 6.20 | 13 | 7 $\frac{1}{8}$ | |
| $\frac{5}{8}$ | 1.40 | 7 $\frac{1}{2}$ | 3 $\frac{5}{8}$ | | $\frac{7}{8}$ | 2.80 | 10 | 5 $\frac{3}{8}$ | | $1 \frac{7}{8}$ | 6.20 | 13 | 7 $\frac{1}{8}$ | |
| $\frac{3}{4}$ | 1.45 | 7 $\frac{3}{4}$ | 3 $\frac{7}{8}$ | | $\frac{15}{16}$ | 2.80 | 10 | 5 $\frac{3}{8}$ | | | | | | |
| $\frac{7}{8}$ | 1.45 | 7 $\frac{3}{4}$ | 3 $\frac{7}{8}$ | No. 3 | $\frac{1}{8}$ | 2.90 | 10 $\frac{1}{4}$ | 5 $\frac{1}{2}$ | No. 5 | $1 \frac{1}{8}$ | 13.25 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | No. 6 |
| $\frac{15}{16}$ | 1.45 | 7 $\frac{3}{4}$ | 3 $\frac{7}{8}$ | | $\frac{3}{16}$ | 2.90 | 10 $\frac{1}{4}$ | 5 $\frac{1}{2}$ | | $1 \frac{1}{4}$ | 13.25 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |
| $\frac{1}{8}$ | 1.50 | 8 | 4 $\frac{1}{8}$ | | $\frac{1}{4}$ | 3.00 | 10 $\frac{1}{4}$ | 5 $\frac{5}{8}$ | | $1 \frac{3}{8}$ | 14.00 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |
| $\frac{3}{16}$ | 1.50 | 8 | 4 $\frac{1}{8}$ | | $\frac{3}{8}$ | 3.00 | 10 $\frac{1}{4}$ | 5 $\frac{5}{8}$ | | $1 \frac{1}{2}$ | 14.75 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |
| $\frac{1}{4}$ | 1.60 | 8 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | | $\frac{1}{2}$ | 3.10 | 10 $\frac{3}{8}$ | 5 $\frac{3}{4}$ | | $1 \frac{3}{4}$ | 15.50 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |
| $\frac{5}{16}$ | 1.60 | 8 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | | $\frac{5}{8}$ | 3.10 | 10 $\frac{3}{8}$ | 5 $\frac{3}{4}$ | | $1 \frac{7}{8}$ | 16.25 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |
| $\frac{3}{8}$ | 1.70 | 8 $\frac{1}{2}$ | 4 $\frac{5}{8}$ | | $\frac{3}{4}$ | 3.20 | 10 $\frac{1}{2}$ | 5 $\frac{7}{8}$ | | $1 \frac{1}{2}$ | 17.00 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |
| $\frac{7}{8}$ | 1.70 | 8 $\frac{1}{2}$ | 4 $\frac{5}{8}$ | | $\frac{7}{8}$ | 3.20 | 10 $\frac{1}{2}$ | 5 $\frac{7}{8}$ | | $1 \frac{3}{4}$ | 17.75 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |
| $\frac{15}{16}$ | 2.50 | 9 $\frac{3}{8}$ | 4 $\frac{3}{4}$ | | $\frac{15}{16}$ | 3.30 | 10 $\frac{5}{8}$ | 6 | | $1 \frac{7}{8}$ | 18.50 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |
| $\frac{1}{8}$ | 2.50 | 9 $\frac{3}{8}$ | 4 $\frac{3}{4}$ | | $\frac{1}{8}$ | 3.30 | 10 $\frac{5}{8}$ | 6 | | 2 | 19.25 | 16 $\frac{1}{2}$ | 9 $\frac{5}{8}$ | |

SHANKS LARGER THAN REGULAR

No. 1303—High Speed Steel

| Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank | Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank | Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank |
|-----------------|--------|------------------|-----------------|-------------|-----------------|---------|------------------|------------------|-------------|-------------------|---------|------------------|------------------|-------------|
| $\frac{1}{8}$ | \$1.50 | 7 $\frac{3}{8}$ | 3 $\frac{1}{2}$ | No. 2 | $\frac{1}{4}$ | \$ 3.75 | 10 $\frac{5}{8}$ | 6 | No. 3 | $2 \frac{1}{2}$ | \$43.75 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | No. 6 |
| $\frac{3}{16}$ | 1.65 | 7 $\frac{1}{2}$ | 3 $\frac{5}{8}$ | | $\frac{3}{8}$ | 3.75 | 10 $\frac{5}{8}$ | 6 | | $2 \frac{3}{4}$ | 45.00 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{1}{4}$ | 1.65 | 7 $\frac{1}{2}$ | 3 $\frac{5}{8}$ | | $\frac{1}{2}$ | 6.25 | 12 | 6 $\frac{3}{8}$ | | $2 \frac{5}{8}$ | 50.00 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{5}{16}$ | 1.75 | 7 $\frac{3}{4}$ | 3 $\frac{7}{8}$ | | $\frac{3}{4}$ | 6.25 | 12 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | | $2 \frac{7}{8}$ | 55.00 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{3}{8}$ | 1.75 | 7 $\frac{3}{4}$ | 3 $\frac{7}{8}$ | | $\frac{15}{16}$ | 6.75 | 12 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | | $2 \frac{15}{16}$ | 60.00 | 20 $\frac{1}{2}$ | 11 $\frac{1}{4}$ | |
| $\frac{7}{8}$ | 1.90 | 8 | 4 $\frac{1}{8}$ | | $\frac{1}{8}$ | 6.75 | 12 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | | $2 \frac{1}{2}$ | 65.00 | 20 $\frac{1}{2}$ | 11 $\frac{1}{4}$ | |
| $\frac{15}{16}$ | 1.90 | 8 | 4 $\frac{1}{8}$ | | $\frac{1}{4}$ | 7.25 | 12 $\frac{1}{4}$ | 6 $\frac{5}{8}$ | | $2 \frac{3}{8}$ | 70.00 | 21 $\frac{1}{8}$ | 11 $\frac{1}{4}$ | |
| $\frac{1}{8}$ | 2.75 | 9 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | No. 3 | $\frac{1}{8}$ | 7.25 | 12 $\frac{1}{4}$ | 6 $\frac{5}{8}$ | | $2 \frac{5}{8}$ | 75.00 | 21 $\frac{1}{8}$ | 11 $\frac{1}{4}$ | |
| $\frac{3}{16}$ | 2.75 | 9 $\frac{3}{4}$ | 5 $\frac{1}{8}$ | | $\frac{1}{4}$ | 35.00 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | No. 5 | $2 \frac{7}{8}$ | 80.00 | 22 $\frac{1}{8}$ | 12 $\frac{3}{8}$ | |
| $\frac{1}{4}$ | 3.00 | 10 | 5 $\frac{3}{8}$ | | $\frac{3}{8}$ | 36.25 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | | $2 \frac{9}{8}$ | 85.00 | 22 $\frac{1}{8}$ | 12 $\frac{3}{8}$ | |
| $\frac{5}{16}$ | 3.00 | 10 | 5 $\frac{3}{8}$ | | $\frac{1}{2}$ | 37.50 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | | $2 \frac{11}{8}$ | 90.00 | 22 $\frac{1}{8}$ | 13 $\frac{1}{4}$ | |
| $\frac{3}{8}$ | 3.25 | 10 $\frac{1}{4}$ | 5 $\frac{5}{8}$ | | $\frac{3}{4}$ | 38.75 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | | $2 \frac{13}{8}$ | 95.00 | 22 $\frac{1}{8}$ | 13 $\frac{1}{4}$ | |
| $\frac{7}{8}$ | 3.25 | 10 $\frac{1}{4}$ | 5 $\frac{5}{8}$ | | $\frac{15}{16}$ | 40.00 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | | $2 \frac{15}{8}$ | 100.00 | 23 $\frac{1}{8}$ | 13 $\frac{3}{4}$ | |
| $\frac{15}{16}$ | 3.50 | 10 $\frac{1}{2}$ | 5 $\frac{7}{8}$ | | $\frac{1}{8}$ | 41.25 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | | $2 \frac{17}{8}$ | 105.00 | 23 $\frac{1}{8}$ | 13 $\frac{3}{4}$ | |
| $\frac{1}{8}$ | 3.50 | 10 $\frac{1}{2}$ | 5 $\frac{7}{8}$ | | $\frac{1}{4}$ | 42.50 | 19 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | | | | | | |



SHANKS SMALLER THAN REGULAR

No. 1303A—High Speed Steel

| Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank | Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank | Diam., Inches | Each | Length, Inches | Twist, Inches | Taper Shank |
|-----------------|--------|------------------|-----------------|-------------|-------------------|---------|------------------|------------------|-------------|------------------|---------|------------------|------------------|-------------|
| $\frac{1}{8}$ | \$2.00 | 7 $\frac{1}{2}$ | 4 $\frac{3}{8}$ | No. 1 | $1 \frac{1}{8}$ | \$ 8.25 | 11 $\frac{3}{4}$ | 7 $\frac{1}{2}$ | No. 3 | $1 \frac{1}{8}$ | \$22.00 | 15 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | No. 4 |
| $\frac{3}{16}$ | 2.00 | 7 $\frac{1}{2}$ | 4 $\frac{3}{8}$ | | $1 \frac{1}{4}$ | 8.90 | 11 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | | $1 \frac{1}{4}$ | 23.00 | 15 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{1}{4}$ | 2.15 | 7 $\frac{1}{2}$ | 4 $\frac{5}{8}$ | | $1 \frac{3}{8}$ | 8.90 | 11 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | | $1 \frac{1}{2}$ | 23.00 | 15 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{5}{16}$ | 2.15 | 7 $\frac{1}{2}$ | 4 $\frac{5}{8}$ | | $1 \frac{1}{2}$ | 9.50 | 12 | 7 $\frac{3}{8}$ | | $1 \frac{3}{4}$ | 24.00 | 15 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{3}{8}$ | 2.25 | 8 $\frac{1}{8}$ | 4 $\frac{7}{8}$ | | $1 \frac{3}{4}$ | 9.50 | 12 | 7 $\frac{3}{8}$ | | $1 \frac{5}{8}$ | 24.00 | 16 $\frac{1}{4}$ | 10 $\frac{3}{8}$ | |
| $\frac{7}{8}$ | 2.25 | 8 $\frac{1}{8}$ | 4 $\frac{7}{8}$ | | $1 \frac{7}{8}$ | 10.15 | 12 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | | $1 \frac{7}{8}$ | 25.00 | 16 $\frac{1}{4}$ | 10 $\frac{3}{8}$ | |
| $\frac{15}{16}$ | 2.25 | 8 $\frac{1}{8}$ | 4 $\frac{7}{8}$ | | $1 \frac{15}{16}$ | 10.15 | 12 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | | $1 \frac{9}{8}$ | 25.00 | 16 $\frac{1}{4}$ | 10 $\frac{3}{8}$ | |
| $\frac{1}{8}$ | 4.00 | 10 | 6 $\frac{1}{8}$ | No. 2 | $1 \frac{1}{4}$ | 10.75 | 12 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | | $1 \frac{11}{8}$ | 26.25 | 16 $\frac{1}{4}$ | 10 $\frac{3}{8}$ | |
| $\frac{3}{16}$ | 4.00 | 10 | 6 $\frac{1}{8}$ | | $1 \frac{3}{8}$ | 10.75 | 12 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | No. 4 | $1 \frac{13}{8}$ | 27.50 | 16 $\frac{1}{4}$ | 10 $\frac{3}{8}$ | |
| $\frac{1}{4}$ | 4.40 | 10 | 6 $\frac{1}{8}$ | | $1 \frac{1}{2}$ | 18.15 | 15 | 9 $\frac{3}{8}$ | | $1 \frac{15}{8}$ | 28.75 | 16 $\frac{1}{4}$ | 10 $\frac{3}{8}$ | |
| $\frac{5}{16}$ | 4.40 | 10 | 6 $\frac{1}{8}$ | | $1 \frac{3}{4}$ | 18.15 | 15 | 9 $\frac{3}{8}$ | | $1 \frac{7}{8}$ | 30.00 | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{3}{8}$ | 4.75 | 10 | 6 $\frac{1}{8}$ | | $1 \frac{7}{8}$ | 19.00 | 15 $\frac{1}{4}$ | 9 $\frac{5}{8}$ | | $1 \frac{9}{8}$ | 31.25 | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{7}{8}$ | 4.75 | 10 | 6 $\frac{1}{8}$ | | $1 \frac{15}{16}$ | 19.00 | 15 $\frac{1}{4}$ | 9 $\frac{5}{8}$ | | $1 \frac{11}{8}$ | 32.50 | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{15}{16}$ | 5.15 | 10 | 6 $\frac{1}{8}$ | | $\frac{1}{8}$ | 20.00 | 15 $\frac{1}{8}$ | 9 $\frac{11}{8}$ | | $1 \frac{13}{8}$ | 33.75 | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{1}{8}$ | 5.15 | 10 | 6 $\frac{1}{8}$ | | $\frac{1}{4}$ | 20.00 | 15 $\frac{1}{8}$ | 9 $\frac{11}{8}$ | | $1 \frac{15}{8}$ | 35.00 | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| $\frac{3}{16}$ | 7.75 | 11 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | No. 3 | $\frac{1}{2}$ | 21.00 | 15 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | | | | | | |
| $\frac{1}{4}$ | 7.75 | 11 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | | $\frac{3}{8}$ | 21.00 | 15 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | | | | | | |
| $\frac{1}{2}$ | 8.25 | 11 $\frac{3}{4}$ | 7 $\frac{1}{8}$ | | $\frac{1}{4}$ | 22.00 | 15 $\frac{1}{8}$ | 10 $\frac{1}{8}$ | | | | | | |

TWIST DRILLS **MORSE STRAIGHT SHANK JOBBER'S LENGTH**



No. 330—Carbon Steel

No. 1330—High Speed Steel

| Diam., Inches | Per Dozen | | Length, Inches | Twist, Inches | Decimal Equivalent | Diam., Inches | Per Dozen | | Length, Inches | Twist, Inches | Decimal Equivalent |
|------------------|-----------------|------------------------|-------------------|------------------|-----------------------|------------------|-----------------|------------------------|-------------------|------------------|-----------------------|
| | Carbon Steel | High Speed Steel | | | | | Carbon Steel | High Speed Steel | | | |
| $\frac{3}{32}$ | \$1.50 | ..... | 1 $\frac{1}{16}$ | $\frac{3}{16}$ | .0312 | $\frac{3}{32}$ | \$3.50 | \$ 9.10 | 4 $\frac{1}{8}$ | 2 $\frac{7}{8}$ | .2656 |
| $\frac{1}{8}$ | 1.55 | ..... | 1 $\frac{1}{8}$ | $\frac{1}{4}$ | .0468 | $\frac{1}{8}$ | 3.80 | 9.10 | 4 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | .2812 |
| $\frac{5}{32}$ | 1.60 | \$5.70 | 2 $\frac{1}{16}$ | $\frac{1}{4}$ | .0625 | $\frac{5}{32}$ | 4.00 | 10.50 | 4 $\frac{3}{8}$ | 3 $\frac{1}{2}$ | .2968 |
| $\frac{3}{16}$ | 1.65 | 5.70 | 2 $\frac{1}{8}$ | $\frac{1}{2}$ | .0781 | $\frac{3}{16}$ | 4.35 | 10.50 | 4 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | .3125 |
| $\frac{1}{4}$ | 1.70 | 5.70 | 2 $\frac{3}{8}$ | $\frac{1}{2}$ | .0937 | $\frac{1}{4}$ | 4.70 | 12.00 | 4 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | .3281 |
| $\frac{5}{16}$ | 1.75 | 5.90 | 2 $\frac{7}{8}$ | $\frac{1}{2}$ | .1093 | $\frac{5}{16}$ | 5.05 | 12.00 | 4 $\frac{7}{8}$ | 3 $\frac{3}{4}$ | .3437 |
| $\frac{3}{8}$ | 1.80 | 5.90 | 3 | $\frac{1}{2}$ | .125 | $\frac{3}{8}$ | 5.50 | 13.50 | 4 $\frac{7}{8}$ | 3 $\frac{3}{4}$ | .3593 |
| $\frac{7}{16}$ | 1.85 | 6.10 | 3 $\frac{1}{8}$ | $\frac{1}{2}$ | .1406 | $\frac{7}{16}$ | 6.00 | 13.50 | 5 | 3 $\frac{3}{4}$ | .375 |
| $\frac{1}{2}$ | 1.90 | 6.10 | 3 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | .1562 | $\frac{1}{2}$ | 6.50 | 15.00 | 5 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | .3906 |
| $\frac{9}{16}$ | 2.00 | 6.30 | 3 $\frac{3}{8}$ | 2 $\frac{3}{4}$ | .1718 | $\frac{9}{16}$ | 7.00 | 15.00 | 5 $\frac{1}{4}$ | 3 $\frac{3}{4}$ | .4062 |
| $\frac{5}{8}$ | 2.25 | 6.30 | 3 $\frac{7}{8}$ | 2 $\frac{3}{4}$ | .1875 | $\frac{5}{8}$ | 7.75 | 17.00 | 5 $\frac{3}{8}$ | 3 $\frac{3}{4}$ | .4218 |
| $\frac{11}{16}$ | 2.50 | 7.00 | 3 $\frac{7}{8}$ | 2 $\frac{3}{4}$ | .2031 | $\frac{11}{16}$ | 8.50 | 17.00 | 5 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | .4375 |
| $\frac{3}{4}$ | 2.75 | 7.00 | 3 $\frac{7}{8}$ | 2 $\frac{3}{4}$ | .2187 | $\frac{3}{4}$ | 9.25 | 18.75 | 5 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | .4531 |
| $\frac{13}{16}$ | 3.00 | 7.35 | 3 $\frac{7}{8}$ | 2 $\frac{3}{4}$ | .2343 | $\frac{13}{16}$ | 10.00 | 18.75 | 5 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | .4687 |
| $\frac{1}{2}$ | 3.25 | 7.35 | 4 | 2 $\frac{3}{4}$ | .25 | $\frac{1}{2}$ | 11.00 | 20.00 | 5 $\frac{7}{8}$ | 4 $\frac{1}{2}$ | .4843 |
| | | | | | | | 12.00 | 20.00 | 6 | 4 $\frac{1}{2}$ | .5 |

MORSE STRAIGHT SHANK TAPER LENGTH



No. 314—Carbon Steel

No. 1314—High Speed Steel

| Diam., Inches | Each | | Length, Inches | Twist, Inches | Decimal Equivalent | Diam., Inches | Each | | Length, Inches | Twist, Inches | Decimal Equivalent |
|------------------|-----------------|------------------------|-------------------|------------------|-----------------------|------------------|-----------------|------------------------|-------------------|------------------|-----------------------|
| | Carbon Steel | High Speed Steel | | | | | Carbon Steel | High Speed Steel | | | |
| $\frac{1}{16}$ | \$0.45 | \$0.90 | 5 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | .125 | $\frac{1}{16}$ | \$2.20 | \$4.00 | 10 | 6 $\frac{5}{8}$ | .8125 |
| $\frac{1}{8}$ | .45 | .90 | 5 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | .1406 | $\frac{1}{8}$ | 2.40 | 4.40 | 10 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | .8281 |
| $\frac{3}{16}$ | .45 | .90 | 5 $\frac{3}{8}$ | 3 | .1562 | $\frac{3}{16}$ | 2.40 | 4.40 | 10 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | .8437 |
| $\frac{1}{4}$ | .50 | .90 | 5 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | .1718 | $\frac{1}{4}$ | 2.60 | 4.75 | 10 $\frac{1}{2}$ | 7 | .8593 |
| $\frac{5}{16}$ | .50 | .90 | 5 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | .1875 | $\frac{5}{16}$ | 2.60 | 4.75 | 10 $\frac{1}{2}$ | 7 | .875 |
| $\frac{3}{8}$ | .55 | 1.00 | 5 $\frac{7}{8}$ | 3 $\frac{3}{4}$ | .2031 | $\frac{3}{8}$ | 2.80 | 5.15 | 10 $\frac{3}{8}$ | 7 | .8906 |
| $\frac{7}{16}$ | .55 | 1.00 | 6 | 4 | .2187 | $\frac{7}{16}$ | 2.80 | 5.15 | 10 $\frac{3}{8}$ | 7 | .9062 |
| $\frac{1}{2}$ | .60 | 1.10 | 6 $\frac{1}{8}$ | 4 | .2343 | $\frac{1}{2}$ | 3.00 | 5.50 | 10 $\frac{3}{4}$ | 7 | .9218 |
| $\frac{5}{8}$ | .60 | 1.10 | 6 $\frac{1}{4}$ | 4 | .25 | $\frac{5}{8}$ | 3.00 | 5.50 | 10 $\frac{3}{4}$ | 7 | .9375 |
| $\frac{3}{4}$ | .65 | 1.20 | 6 $\frac{1}{4}$ | 4 | .2656 | $\frac{3}{4}$ | 3.25 | 5.90 | 10 $\frac{7}{8}$ | 7 $\frac{1}{8}$ | .9531 |
| $\frac{7}{8}$ | .65 | 1.20 | 6 $\frac{1}{2}$ | 4 | .2812 | $\frac{7}{8}$ | 3.25 | 5.90 | 10 $\frac{7}{8}$ | 7 $\frac{1}{8}$ | .9687 |
| $\frac{15}{16}$ | .70 | 1.30 | 6 $\frac{3}{8}$ | 4 $\frac{1}{2}$ | .2968 | $\frac{15}{16}$ | 3.50 | 6.25 | 11 | 7 $\frac{1}{8}$ | .9843 |
| $\frac{1}{2}$ | .70 | 1.30 | 6 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | .3125 | $\frac{1}{2}$ | 3.75 | 6.75 | 11 $\frac{1}{8}$ | 7 $\frac{1}{8}$ | 1. |
| $\frac{1}{2}$ | .75 | 1.40 | 6 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | .3281 | $\frac{1}{2}$ | 3.75 | 6.75 | 11 $\frac{1}{8}$ | 7 $\frac{1}{8}$ | 1.0156 |
| $\frac{1}{2}$ | .75 | 1.40 | 6 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | .3437 | $\frac{1}{2}$ | 4.00 | 7.25 | 11 $\frac{1}{4}$ | 7 $\frac{3}{8}$ | 1.0312 |
| $\frac{1}{2}$ | .80 | 1.50 | 6 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | .3593 | $\frac{1}{2}$ | 4.00 | 7.25 | 11 $\frac{1}{4}$ | 7 $\frac{3}{8}$ | 1.0468 |
| $\frac{1}{2}$ | .80 | 1.50 | 6 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | .375 | $\frac{1}{2}$ | 4.25 | 7.75 | 11 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | 1.0625 |
| $\frac{1}{2}$ | .90 | 1.65 | 7 | 4 $\frac{3}{8}$ | .3906 | $\frac{1}{2}$ | 4.25 | 7.75 | 11 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | 1.0781 |
| $\frac{1}{2}$ | .90 | 1.65 | 7 | 4 $\frac{3}{8}$ | .4062 | $\frac{1}{2}$ | 4.50 | 8.25 | 11 $\frac{3}{4}$ | 7 $\frac{3}{8}$ | 1.0937 |
| $\frac{1}{2}$ | 1.00 | 1.75 | 7 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | .4218 | $\frac{1}{2}$ | 4.50 | 8.25 | 11 $\frac{3}{4}$ | 7 $\frac{3}{8}$ | 1.1093 |
| $\frac{1}{2}$ | 1.00 | 1.75 | 7 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | .4375 | $\frac{1}{2}$ | 4.75 | 8.90 | 11 $\frac{3}{4}$ | 8 | 1.125 |
| $\frac{1}{2}$ | 1.10 | 1.90 | 7 $\frac{1}{2}$ | 4 $\frac{3}{8}$ | .4531 | $\frac{1}{2}$ | 4.75 | 8.90 | 11 $\frac{3}{4}$ | 8 | 1.1406 |
| $\frac{1}{2}$ | 1.10 | 1.90 | 7 $\frac{1}{2}$ | 4 $\frac{3}{8}$ | .4687 | $\frac{1}{2}$ | 5.00 | 9.50 | 12 | 8 $\frac{1}{8}$ | 1.1562 |
| $\frac{1}{2}$ | 1.20 | 2.00 | 7 $\frac{3}{4}$ | 5 | .4843 | $\frac{1}{2}$ | 5.00 | 9.50 | 12 | 8 $\frac{1}{8}$ | 1.1718 |
| $\frac{1}{2}$ | 1.20 | 2.00 | 7 $\frac{3}{4}$ | 5 | .5 | $\frac{1}{2}$ | 5.25 | 10.15 | 12 | 8 $\frac{1}{8}$ | 1.1875 |
| $\frac{1}{2}$ | 1.30 | 2.15 | 8 | 5 $\frac{1}{4}$ | .5156 | $\frac{1}{2}$ | 5.25 | 10.15 | 12 $\frac{1}{8}$ | 8 $\frac{1}{8}$ | 1.2031 |
| $\frac{1}{2}$ | 1.30 | 2.15 | 8 | 5 $\frac{1}{4}$ | .5312 | $\frac{1}{2}$ | 5.50 | 10.75 | 12 $\frac{1}{8}$ | 8 $\frac{1}{8}$ | 1.2187 |
| $\frac{1}{2}$ | 1.40 | 2.25 | 8 $\frac{1}{4}$ | 5 $\frac{3}{8}$ | .5468 | $\frac{1}{2}$ | 5.50 | 10.75 | 12 $\frac{1}{8}$ | 8 $\frac{1}{8}$ | 1.2343 |
| $\frac{1}{2}$ | 1.40 | 2.25 | 8 $\frac{1}{4}$ | 5 $\frac{3}{8}$ | .5625 | $\frac{1}{2}$ | 5.75 | 11.50 | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 1.25 |
| $\frac{1}{2}$ | 1.50 | 2.40 | 8 $\frac{1}{2}$ | 5 $\frac{3}{8}$ | .5781 | $\frac{1}{2}$ | 6.00 | 12.25 | 14 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.2812 |
| $\frac{1}{2}$ | 1.50 | 2.40 | 8 $\frac{1}{2}$ | 5 $\frac{3}{8}$ | .5937 | $\frac{1}{2}$ | 6.25 | 13.00 | 14 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.3125 |
| $\frac{1}{2}$ | 1.60 | 2.50 | 8 $\frac{3}{4}$ | 5 $\frac{3}{8}$ | .6093 | $\frac{1}{2}$ | 6.50 | 13.75 | 14 $\frac{1}{8}$ | 9 $\frac{1}{8}$ | 1.3437 |
| $\frac{1}{2}$ | 1.60 | 2.50 | 8 $\frac{3}{4}$ | 5 $\frac{3}{8}$ | .625 | $\frac{1}{2}$ | 7.00 | 14.65 | 14 $\frac{1}{4}$ | 9 $\frac{1}{2}$ | 1.375 |
| $\frac{1}{2}$ | 1.70 | 2.75 | 9 | 5 $\frac{3}{8}$ | .6406 | $\frac{1}{2}$ | 7.50 | 15.50 | 14 $\frac{1}{4}$ | 9 $\frac{1}{2}$ | 1.4062 |
| $\frac{1}{2}$ | 1.70 | 2.75 | 9 | 5 $\frac{3}{8}$ | .6562 | $\frac{1}{2}$ | 8.00 | 16.40 | 14 $\frac{1}{4}$ | 9 $\frac{1}{2}$ | 1.4375 |
| $\frac{1}{2}$ | 1.80 | 3.00 | 9 $\frac{1}{4}$ | 6 | .6718 | $\frac{1}{2}$ | 8.50 | 17.25 | 14 $\frac{1}{4}$ | 9 $\frac{1}{2}$ | 1.4687 |
| $\frac{1}{2}$ | 1.80 | 3.00 | 9 $\frac{1}{4}$ | 6 | .6875 | $\frac{1}{2}$ | 9.50 | 19.00 | 15 | 9 $\frac{3}{4}$ | 1.5 |
| $\frac{1}{2}$ | 1.90 | 3.25 | 9 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | .7031 | $\frac{1}{2}$ | 10.50 | 21.00 | 15 $\frac{1}{4}$ | 9 $\frac{3}{4}$ | 1.5625 |
| $\frac{1}{2}$ | 1.90 | 3.25 | 9 $\frac{1}{2}$ | 6 $\frac{3}{8}$ | .7187 | $\frac{1}{2}$ | 11.50 | 23.00 | 15 $\frac{1}{2}$ | 10 | 1.625 |
| $\frac{1}{2}$ | 2.00 | 3.50 | 9 $\frac{3}{4}$ | 6 $\frac{3}{8}$ | .7343 | $\frac{1}{2}$ | 12.50 | 25.00 | 15 $\frac{3}{4}$ | 10 $\frac{1}{4}$ | 1.6875 |
| $\frac{1}{2}$ | 2.00 | 3.50 | 9 $\frac{3}{4}$ | 6 $\frac{3}{8}$ | .75 | $\frac{1}{2}$ | 14.00 | 27.50 | 16 | 10 $\frac{1}{2}$ | 1.75 |
| $\frac{1}{2}$ | 2.10 | 3.75 | 9 $\frac{7}{8}$ | 6 $\frac{1}{2}$ | .7656 | $\frac{1}{2}$ | 15.00 | 30.00 | 16 $\frac{1}{4}$ | 10 $\frac{3}{4}$ | 1.8125 |
| $\frac{1}{2}$ | 2.10 | 3.75 | 9 $\frac{7}{8}$ | 6 $\frac{1}{2}$ | .7812 | $\frac{1}{2}$ | 17.00 | 32.50 | 16 $\frac{1}{2}$ | 11 | 1.875 |
| $\frac{1}{2}$ | 2.20 | 4.00 | 10 | 6 $\frac{1}{2}$ | .7968 | $\frac{1}{2}$ | 18.50 | 35.00 | 16 $\frac{1}{2}$ | 11 | 1.9375 |
| | | | | | | | | | | | 2. |

Note—Nos. 314 and 1314 Drills have shanks same size as point up to 1 $\frac{1}{2}$ in.; 1 $\frac{1}{2}$ in. to 2 in. have shanks 1 $\frac{1}{2}$ in. diameter, 4 $\frac{3}{4}$ in. long.

TWIST DRILLS

MORSE STRAIGHT SHANK WIRE GAUGE



No. 340—Carbon Steel

| No. by Gauge | Per Dozen | | Decimals of 1 Inch | Length, Inches | Twist, Inches |
|--------------|--------------|------------------|--------------------|----------------|---------------|
| | Carbon Steel | High Speed Steel | | | |
| 1 | \$2.75 | \$7.00 | .2280 | 4 | 2 3/16 |
| 2 | 2.75 | 7.00 | .2210 | 3 1/8 | 2 5/8 |
| 3 | 2.75 | 7.00 | .2130 | 3 1/8 | 2 5/8 |
| 4 | 2.75 | 7.00 | .2090 | 3 7/8 | 2 5/8 |
| 5 | 2.75 | 7.00 | .2055 | 3 1/8 | 2 5/8 |
| 6 | 2.50 | 7.00 | .2040 | 3 1/8 | 2 5/8 |
| 7 | 2.50 | 7.00 | .2010 | 3 3/4 | 2 1/2 |
| 8 | 2.50 | 7.00 | .1990 | 3 1/8 | 2 1/8 |
| 9 | 2.50 | 7.00 | .1960 | 3 1/8 | 2 1/8 |
| 10 | 2.50 | 7.00 | .1935 | 3 5/8 | 2 3/8 |
| 11 | 2.25 | 6.30 | .1910 | 3 5/8 | 2 1/4 |
| 12 | 2.25 | 6.30 | .1890 | 3 5/8 | 2 1/4 |
| 13 | 2.25 | 6.30 | .1850 | 3 1/2 | 2 1/4 |
| 14 | 2.25 | 6.30 | .1820 | 3 1/2 | 2 1/4 |
| 15 | 2.25 | 6.30 | .1800 | 3 1/2 | 2 1/4 |
| 16 | 2.00 | 6.30 | .1770 | 3 3/8 | 2 1/4 |
| 17 | 2.00 | 6.30 | .1730 | 3 3/8 | 2 1/4 |
| 18 | 2.00 | 6.30 | .1695 | 3 3/8 | 2 1/4 |
| 19 | 2.00 | 6.30 | .1660 | 3 1/4 | 2 1/4 |
| 20 | 2.00 | 6.30 | .1610 | 3 1/4 | 2 1/4 |
| 21 | 1.90 | 6.10 | .1590 | 3 1/4 | 2 1/4 |
| 22 | 1.90 | 6.10 | .1570 | 3 1/4 | 2 |
| 23 | 1.90 | 6.10 | .1540 | 3 1/4 | 1 3/4 |
| 24 | 1.90 | 6.10 | .1520 | 3 1/4 | 1 3/4 |
| 25 | 1.90 | 6.10 | .1495 | 3 | 1 3/4 |
| 26 | 1.80 | 6.10 | .1470 | 2 3/4 | 1 3/4 |
| 27 | 1.80 | 6.10 | .1440 | 2 3/4 | 1 3/4 |
| 28 | 1.80 | 6.10 | .1405 | 2 3/4 | 1 3/4 |
| 29 | 1.80 | 6.10 | .1360 | 2 1/8 | 1 3/4 |
| 30 | 1.80 | 6.10 | .1285 | 2 1/8 | 1 3/4 |
| 31 | 1.75 | 5.90 | .1200 | 2 3/8 | 1 3/4 |
| 32 | 1.75 | 5.90 | .1160 | 2 1/8 | 1 3/4 |
| 33 | 1.75 | 5.90 | .1130 | 2 1/8 | 1 3/4 |
| 34 | 1.75 | 5.90 | .1110 | 2 1/8 | 1 3/4 |
| 35 | 1.75 | 5.90 | .1100 | 2 1/8 | 1 3/4 |
| 36 | 1.75 | 5.90 | .1065 | 2 1/8 | 1 3/4 |
| 37 | 1.75 | 5.90 | .1040 | 2 1/8 | 1 3/4 |
| 38 | 1.75 | 5.90 | .1015 | 2 1/8 | 1 3/4 |
| 39 | 1.75 | 5.90 | .0995 | 2 1/8 | 1 3/4 |
| 40 | 1.75 | 5.90 | .0980 | 2 3/8 | 1 3/4 |

No. 1340—High Speed Steel

| No. by Gauge | Per Dozen | | Decimals of 1 Inch | Length, Inches | Twist, Inches |
|--------------|--------------|------------------|--------------------|----------------|---------------|
| | Carbon Steel | High Speed Steel | | | |
| 41 | \$1.70 | \$5.70 | .0960 | 2 5/8 | 1 3/8 |
| 42 | 1.70 | 5.70 | .0935 | 2 5/8 | 1 3/8 |
| 43 | 1.70 | 5.70 | .0890 | 2 1/4 | 1 3/8 |
| 44 | 1.70 | 5.70 | .0860 | 2 1/4 | 1 3/8 |
| 45 | 1.70 | 5.70 | .0820 | 2 1/4 | 1 3/8 |
| 46 | 1.65 | 5.70 | .0810 | 2 1/4 | 1 3/8 |
| 47 | 1.65 | 5.70 | .0785 | 2 1/4 | 1 3/8 |
| 48 | 1.65 | 5.70 | .0760 | 2 1/4 | 1 3/8 |
| 49 | 1.65 | 5.70 | .0730 | 2 | 1 3/8 |
| 50 | 1.65 | 5.70 | .0700 | 1 3/8 | 1 3/8 |
| 51 | 1.60 | 5.70 | .0670 | 1 3/8 | 1 3/8 |
| 52 | 1.60 | 5.70 | .0635 | 1 3/8 | 1 3/8 |
| 53 | 1.60 | 5.70 | .0595 | 1 3/8 | 1 3/8 |
| 54 | 1.60 | 5.70 | .0550 | 1 3/8 | 1 3/8 |
| 55 | 1.60 | 5.70 | .0520 | 1 3/8 | 1 3/8 |
| 56 | 1.55 | 5.70 | .0465 | 1 1/4 | 1 3/8 |
| 57 | 1.55 | 5.70 | .0430 | 1 1/4 | 1 3/8 |
| 58 | 1.55 | 5.70 | .0420 | 1 3/8 | 1 3/8 |
| 59 | 1.55 | 5.70 | .0410 | 1 3/8 | 1 3/8 |
| 60 | 1.55 | 5.70 | .0400 | 1 3/8 | 1 3/8 |
| 61 | 1.50 | ..... | .0390 | 1 1/2 | 1 3/8 |
| 62 | 1.50 | ..... | .0380 | 1 1/2 | 1 3/8 |
| 63 | 1.50 | ..... | .0370 | 1 1/2 | 1 3/8 |
| 64 | 1.50 | ..... | .0360 | 1 1/2 | 1 3/8 |
| 65 | 1.50 | ..... | .0350 | 1 1/2 | 1 3/8 |
| 66 | 1.50 | ..... | .0330 | 1 1/2 | 1 3/8 |
| 67 | 1.50 | ..... | .0320 | 1 1/2 | 1 3/8 |
| 68 | 1.50 | ..... | .0310 | 1 1/2 | 1 3/8 |
| 69 | 1.50 | ..... | .0292 | 1 3/8 | 1 3/8 |
| 70 | 1.50 | ..... | .0280 | 1 3/8 | 1 3/8 |
| 71 | 1.50 | ..... | .0260 | 1 3/8 | 1 3/8 |
| 72 | 1.50 | ..... | .0250 | 1 3/8 | 1 3/8 |
| 73 | 1.50 | ..... | .0240 | 1 3/8 | 1 3/8 |
| 74 | 1.50 | ..... | .0225 | 1 3/8 | 1 3/8 |
| 75 | 1.50 | ..... | .0210 | 1 3/8 | 1 3/8 |
| 76 | 1.50 | ..... | .0200 | 1 | 1 3/8 |
| 77 | 1.50 | ..... | .0180 | 1 1/8 | 1 3/8 |
| 78 | 1.50 | ..... | .0160 | 3/8 | 1 3/8 |
| 79 | 1.50 | ..... | .0145 | 1/8 | 1 3/8 |
| 80 | 1.50 | ..... | .0135 | 3/4 | 1 3/8 |

MORSE STRAIGHT SHANK LETTER SIZES



No. 332—Carbon Steel

| Size by Gauge | Per Dozen | | Decimal Equivalent | Length, Inches | Twist, Inches |
|---------------|--------------|------------------|--------------------|----------------|---------------|
| | Carbon Steel | High Speed Steel | | | |
| A | \$3.00 | \$7.35 | .234 | 3 1/8 | 2 3/8 |
| B | 3.05 | 7.35 | .238 | 3 1/8 | 2 3/8 |
| C | 3.10 | 7.35 | .242 | 3 1/8 | 2 3/8 |
| D | 3.15 | 7.35 | .246 | 3 1/8 | 2 3/8 |
| E | 3.25 | 7.35 | .250 | 3 1/8 | 2 3/8 |
| F | 3.35 | 9.10 | .257 | 4 1/4 | 3 |
| G | 3.45 | 9.10 | .261 | 4 1/4 | 3 |
| H | 3.55 | 9.10 | .266 | 4 1/4 | 3 |
| I | 3.65 | 9.10 | .272 | 4 1/4 | 3 |
| J | 3.70 | 9.10 | .277 | 4 1/4 | 3 |
| K | 3.80 | 9.10 | .281 | 4 1/4 | 3 |
| L | 3.90 | 10.50 | .290 | 4 1/4 | 2 3/8 |
| M | 4.00 | 10.50 | .295 | 4 1/4 | 2 3/8 |

No. 1332—High Speed Steel

| Size by Gauge | Per Dozen | | Decimal Equivalent | Length, Inches | Twist, Inches |
|---------------|--------------|------------------|--------------------|----------------|---------------|
| | Carbon Steel | High Speed Steel | | | |
| N | \$4.25 | \$10.50 | .302 | 4 1/4 | 2 3/8 |
| O | 4.40 | 10.50 | .316 | 4 1/4 | 2 3/8 |
| P | 4.60 | 12.00 | .323 | 4 1/2 | 3 3/8 |
| Q | 4.75 | 12.00 | .332 | 4 5/8 | 3 3/8 |
| R | 5.00 | 12.00 | .339 | 4 5/8 | 3 3/8 |
| S | 5.15 | 13.50 | .348 | 4 3/4 | 3 3/8 |
| T | 5.30 | 13.50 | .358 | 4 3/4 | 3 3/8 |
| U | 5.50 | 13.50 | .368 | 4 3/4 | 3 3/8 |
| V | 6.00 | 13.50 | .377 | 5 | 3 3/8 |
| W | 6.50 | 15.00 | .386 | 5 | 3 3/8 |
| X | 6.75 | 15.00 | .397 | 5 1/8 | 3 3/8 |
| Y | 7.00 | 15.00 | .404 | 5 1/8 | 3 3/8 |
| Z | 7.25 | 17.00 | .413 | 5 1/4 | 3 3/8 |

TWIST DRILLS

MORSE STRAIGHT SHANK, FOR WOOD



No. 360—Carbon Steel

| Diameter, Inches | Per Dozen | Length, Inches | Twist, Inches |
|------------------|-----------|-----------------|-----------------|
| $\frac{1}{16}$ | \$1.60 | 2 $\frac{1}{2}$ | 1 $\frac{1}{4}$ |
| $\frac{3}{32}$ | 1.70 | 2 $\frac{3}{4}$ | 1 $\frac{1}{2}$ |
| $\frac{1}{8}$ | 1.80 | 3 | 1 $\frac{3}{4}$ |
| $\frac{5}{32}$ | 1.90 | 3 $\frac{1}{4}$ | 2 $\frac{1}{2}$ |
| $\frac{3}{16}$ | 2.25 | 3 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{7}{32}$ | 2.75 | 3 $\frac{3}{4}$ | 2 $\frac{1}{2}$ |
| $\frac{1}{4}$ | 3.25 | 4 | 2 $\frac{3}{4}$ |
| $\frac{9}{32}$ | 3.80 | 4 $\frac{1}{4}$ | 2 $\frac{3}{4}$ |
| $\frac{5}{16}$ | 4.35 | 4 $\frac{1}{2}$ | 3 $\frac{1}{4}$ |
| $\frac{11}{32}$ | 5.05 | 4 $\frac{3}{4}$ | 3 $\frac{1}{2}$ |
| $\frac{3}{8}$ | 6.00 | 5 | 3 $\frac{3}{4}$ |
| $\frac{13}{32}$ | 7.00 | 5 $\frac{1}{4}$ | 3 $\frac{3}{4}$ |
| $\frac{7}{16}$ | 8.50 | 5 $\frac{1}{2}$ | 4 $\frac{1}{4}$ |
| $\frac{15}{32}$ | 10.00 | 5 $\frac{3}{4}$ | 4 $\frac{1}{2}$ |
| $\frac{1}{2}$ | 12.00 | 6 | 4 $\frac{1}{2}$ |
| $\frac{17}{32}$ | 12.50 | 6 | 4 $\frac{1}{2}$ |
| $\frac{9}{16}$ | 13.00 | 6 | 4 $\frac{1}{2}$ |
| $\frac{19}{32}$ | 13.50 | 6 | 4 $\frac{1}{2}$ |
| $\frac{5}{8}$ | 14.00 | 6 | 4 $\frac{1}{2}$ |

MORSE CENTER



No. 440—Carbon Steel

| Diam., Inches | Per Dozen | Length, Inches | Twist, Inches | Diam., Inches | Per Dozen | Length, Inches | Twist, Inches |
|-----------------|-----------|-----------------|---------------|----------------|-----------|-----------------|---------------|
| $\frac{1}{16}$ | \$1.50 | 1 $\frac{1}{4}$ | $\frac{5}{8}$ | $\frac{1}{8}$ | \$2.25 | 1 $\frac{1}{2}$ | 1 |
| $\frac{3}{32}$ | 1.55 | 1 $\frac{1}{8}$ | $\frac{5}{8}$ | $\frac{3}{16}$ | 2.50 | 1 $\frac{1}{2}$ | 1 |
| $\frac{1}{8}$ | 1.60 | 1 $\frac{1}{8}$ | $\frac{3}{4}$ | $\frac{1}{4}$ | 2.75 | 1 $\frac{1}{2}$ | 1 |
| $\frac{5}{32}$ | 1.65 | 1 $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{5}{16}$ | 3.00 | 1 $\frac{1}{2}$ | 1 |
| $\frac{3}{16}$ | 1.70 | 1 $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{3}{8}$ | 3.25 | 1 $\frac{1}{2}$ | 1 |
| $\frac{7}{32}$ | 1.75 | 1 $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | 3.50 | 1 $\frac{1}{2}$ | 1 |
| $\frac{1}{4}$ | 1.80 | 1 $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{5}{8}$ | 3.80 | 1 $\frac{1}{2}$ | 1 |
| $\frac{9}{32}$ | 1.85 | 1 $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 4.00 | 1 $\frac{1}{2}$ | 1 |
| $\frac{5}{16}$ | 1.90 | 1 $\frac{1}{2}$ | 1 | $\frac{7}{8}$ | 4.35 | 1 $\frac{1}{2}$ | 1 |
| $\frac{11}{32}$ | 2.00 | 1 $\frac{1}{2}$ | 1 | | | | |

MORSE TRACK



No. 446—Carbon Steel No. 1446—High Speed Steel

| Diam., Inches | Per Dozen Carbon Steel | Per Dozen High Speed Steel | Length, Inches | Twist, Inches | Diam. Shank, Inches | Decimal Equivalent |
|----------------|------------------------|----------------------------|----------------|-----------------|---------------------|--------------------|
| $\frac{3}{32}$ | \$3.80 | \$ 9.10 | 3 | 1 $\frac{3}{4}$ | $\frac{3}{32}$ | .2812 |
| $\frac{1}{8}$ | 6.00 | 13.50 | 3 | 1 $\frac{3}{4}$ | $\frac{1}{8}$ | .375 |
| $\frac{3}{16}$ | 6.00 | 13.50 | 3 | 1 $\frac{3}{4}$ | $\frac{3}{16}$ | .375 |

These drills are especially adapted for drilling rails for bonding work and are of a construction and temper guaranteed to give best results.

MORSE BIT STOCK



No. 390—Carbon Steel

| Diameter, Inches | Per Dozen | Length, Inches | Twist, Inches | Shank to Point, Inches |
|------------------|-----------|-----------------|-----------------|------------------------|
| $\frac{1}{16}$ | \$ 2.50 | 3 $\frac{1}{8}$ | $\frac{7}{8}$ | 1 $\frac{1}{2}$ |
| $\frac{3}{32}$ | 2.00 | 3 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |
| $\frac{1}{8}$ | 2.70 | 3 $\frac{1}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |
| $\frac{5}{32}$ | 2.85 | 3 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ |
| $\frac{3}{16}$ | 3.00 | 3 $\frac{1}{8}$ | 1 $\frac{3}{4}$ | 2 $\frac{1}{2}$ |
| $\frac{7}{32}$ | 3.25 | 3 $\frac{1}{8}$ | 1 $\frac{3}{4}$ | 2 $\frac{1}{2}$ |
| $\frac{1}{4}$ | 3.50 | 3 $\frac{1}{8}$ | 2 | 2 $\frac{1}{2}$ |
| $\frac{9}{32}$ | 3.75 | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 2 $\frac{1}{2}$ |
| $\frac{5}{16}$ | 4.00 | 4 $\frac{1}{8}$ | 2 $\frac{1}{4}$ | 2 $\frac{1}{2}$ |
| $\frac{11}{32}$ | 4.25 | 4 $\frac{1}{8}$ | 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ |
| $\frac{3}{8}$ | 4.50 | 4 $\frac{1}{8}$ | 2 $\frac{3}{4}$ | 3 $\frac{1}{2}$ |
| $\frac{13}{32}$ | 4.75 | 5 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | 3 $\frac{1}{2}$ |
| $\frac{7}{16}$ | 5.00 | 5 $\frac{1}{8}$ | 3 $\frac{1}{4}$ | 3 $\frac{1}{2}$ |
| $\frac{15}{32}$ | 5.50 | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ | 4 $\frac{1}{8}$ |
| $\frac{1}{2}$ | 6.00 | 5 $\frac{1}{8}$ | 3 $\frac{3}{8}$ | 4 $\frac{1}{8}$ |
| $\frac{17}{32}$ | 6.50 | 5 $\frac{1}{8}$ | 3 $\frac{1}{2}$ | 4 $\frac{1}{8}$ |
| $\frac{9}{16}$ | 7.00 | 5 $\frac{1}{8}$ | 3 $\frac{1}{2}$ | 4 $\frac{1}{8}$ |
| $\frac{19}{32}$ | 7.50 | 5 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 4 $\frac{1}{8}$ |
| $\frac{5}{8}$ | 8.00 | 5 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 4 $\frac{1}{8}$ |
| $\frac{21}{32}$ | 8.50 | 5 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 4 $\frac{1}{8}$ |
| $\frac{11}{16}$ | 9.25 | 5 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 4 $\frac{1}{8}$ |
| $\frac{23}{32}$ | 10.50 | 6 $\frac{1}{4}$ | 4 | 4 $\frac{1}{2}$ |
| $\frac{3}{4}$ | 11.75 | 6 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 4 $\frac{1}{2}$ |
| $\frac{25}{32}$ | 13.00 | 6 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 5 |
| $\frac{13}{16}$ | 14.25 | 7 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{27}{32}$ | 15.50 | 7 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{3}{4}$ | 16.75 | 7 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{29}{32}$ | 18.00 | 7 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{7}{8}$ | 19.50 | 7 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{31}{32}$ | 21.00 | 7 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{15}{16}$ | 22.50 | 7 $\frac{1}{2}$ | 5 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{33}{32}$ | 24.00 | 7 $\frac{1}{2}$ | 5 | 5 $\frac{3}{8}$ |
| $\frac{17}{16}$ | 25.50 | 7 $\frac{1}{2}$ | 5 | 5 $\frac{3}{8}$ |
| $\frac{35}{32}$ | 27.00 | 7 $\frac{1}{2}$ | 5 | 5 $\frac{3}{8}$ |
| $\frac{19}{16}$ | 28.50 | 7 $\frac{1}{2}$ | 5 | 5 $\frac{3}{8}$ |
| $\frac{37}{32}$ | 30.00 | 7 $\frac{1}{2}$ | 5 | 5 $\frac{3}{8}$ |
| $\frac{21}{16}$ | 31.50 | 7 $\frac{1}{2}$ | 5 | 5 $\frac{3}{8}$ |
| $\frac{39}{32}$ | 33.00 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{23}{16}$ | 34.50 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{41}{32}$ | 36.00 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{25}{16}$ | 39.00 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{43}{32}$ | 42.00 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{27}{16}$ | 45.00 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |
| $\frac{45}{32}$ | 48.00 | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | 5 $\frac{3}{8}$ |

Our Bit Stock Drills will fit any brace in the market, and will drill steel, iron or other metals as well as wood. They are not injured by contact with screws or nails, and will bore straight any kind of wood without splitting it.

For Sets of Bit Stock Drills, see page 15.

32d sizes not listed furnished at intermediate prices and 64ths sizes at price of next larger 32d size.

TWIST DRILLS **MORSE BLACKSMITHS**



Style No. 2, with Flatted Shank.

No. 412—Carbon Steel

For use in Silver and Deming and Prentice Blacksmith Drill Presses Nos. 1 and 2 Shanks $\frac{1}{2}$ in. diameter, $2\frac{1}{2}$ in. long. If Round Shanks are desired specify Style No. 1, which are furnished at special prices.

| Diam., Inches | Each | | Length, Inches | Twist, Inches | Diam., Inches | Each | | Length, Inches | Twist, Inches | Diam., Inches | Each | | Length, Inches | Twist, Inches |
|------------------|-----------------|------------------------|-------------------|------------------|------------------|-----------------|------------------------|-------------------|------------------|------------------|-----------------|------------------------|-------------------|------------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{8}$ | \$0.45 | ..... | $5\frac{1}{8}$ | $2\frac{3}{8}$ | $\frac{1}{8}$ | \$1.10 | \$2.05 | 6 | $2\frac{3}{4}$ | 1 | \$2.50 | \$4.10 | 6 | $2\frac{3}{4}$ |
| $\frac{3}{16}$ | .45 | ..... | $5\frac{3}{8}$ | $2\frac{3}{8}$ | $\frac{3}{16}$ | 1.20 | 2.20 | 6 | $2\frac{3}{4}$ | $1\frac{1}{2}$ | 2.60 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{1}{4}$ | .50 | ..... | $5\frac{3}{8}$ | $2\frac{3}{8}$ | $\frac{1}{4}$ | 1.30 | 2.30 | 6 | $2\frac{3}{4}$ | $1\frac{1}{8}$ | 2.70 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{5}{16}$ | .55 | ..... | 6 | 3 | $\frac{5}{16}$ | 1.40 | 2.40 | 6 | $2\frac{3}{4}$ | $1\frac{1}{4}$ | 2.80 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{3}{8}$ | .60 | ..... | 6 | 3 | $\frac{3}{8}$ | 1.50 | 2.50 | 6 | $2\frac{3}{4}$ | $1\frac{3}{8}$ | 2.90 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{7}{16}$ | .65 | ..... | 6 | $2\frac{3}{4}$ | $\frac{7}{16}$ | 1.60 | 2.65 | 6 | $2\frac{3}{4}$ | $1\frac{1}{2}$ | 3.00 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{1}{2}$ | .70 | ..... | 6 | $2\frac{3}{4}$ | $\frac{1}{2}$ | 1.70 | 2.75 | 6 | $2\frac{3}{4}$ | $1\frac{5}{8}$ | 3.10 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{9}{16}$ | .75 | ..... | 6 | $2\frac{3}{4}$ | $\frac{9}{16}$ | 1.80 | 2.90 | 6 | $2\frac{3}{4}$ | $1\frac{3}{4}$ | 3.20 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{5}{8}$ | .80 | ..... | 6 | $2\frac{3}{4}$ | $\frac{5}{8}$ | 1.90 | 3.00 | 6 | $2\frac{3}{4}$ | $1\frac{7}{8}$ | 3.30 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{11}{16}$ | .85 | ..... | 6 | $2\frac{3}{4}$ | $\frac{11}{16}$ | 2.00 | 3.15 | 6 | $2\frac{3}{4}$ | $1\frac{1}{2}$ | 3.60 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{3}{4}$ | .90 | ..... | 6 | $2\frac{3}{4}$ | $\frac{3}{4}$ | 2.10 | 3.30 | 6 | $2\frac{3}{4}$ | $1\frac{5}{8}$ | 3.90 | ..... | 6 | $2\frac{3}{4}$ |
| $\frac{7}{8}$ | .95 | ..... | 6 | $2\frac{3}{4}$ | $\frac{7}{8}$ | 2.20 | 3.50 | 6 | $2\frac{3}{4}$ | $1\frac{3}{4}$ | 4.20 | ..... | 6 | $2\frac{3}{4}$ |
| $1\frac{1}{8}$ | 1.00 | \$1.75 | 6 | $2\frac{3}{4}$ | $1\frac{1}{8}$ | 2.30 | 3.70 | 6 | $2\frac{3}{4}$ | $1\frac{1}{2}$ | 4.50 | ..... | 6 | $2\frac{3}{4}$ |
| $1\frac{1}{4}$ | 1.05 | 1.90 | 6 | $2\frac{3}{4}$ | $1\frac{1}{4}$ | 2.40 | 3.90 | 6 | $2\frac{3}{4}$ | | | | | |



Style No. 2, with Flatted Shank.

No. 418—Carbon Steel

For use in Coe's Blacksmiths' Drill Press and Prentice Drill Press No. 3, Shanks .647 in. exact diameter (about $\frac{5}{8}$ in.) and $2\frac{1}{4}$ in. long. If Round Shank is desired specify Style No. 1, which are furnished at special prices.

| Diam., Inches | Each | | Length, Inches | Twist, Inches | Diam., Inches | Each | | Length, Inches | Twist, Inches | Diam., Inches | Each | | Length, Inches | Twist, Inches |
|------------------|-----------------|------------------------|-------------------|------------------|------------------|-----------------|------------------------|-------------------|------------------|------------------|-----------------|------------------------|-------------------|------------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{8}$ | \$0.50 | ..... | $4\frac{7}{8}$ | $2\frac{3}{8}$ | $\frac{1}{8}$ | \$1.20 | \$2.05 | 6 | 3 | 1 | \$2.50 | \$4.10 | 6 | 3 |
| $\frac{3}{16}$ | .55 | ..... | $5\frac{1}{8}$ | $2\frac{3}{8}$ | $\frac{3}{16}$ | 1.25 | 2.20 | 6 | 3 | $1\frac{1}{2}$ | 2.60 | 4.30 | 6 | 3 |
| $\frac{1}{4}$ | .60 | ..... | $5\frac{1}{8}$ | $2\frac{3}{8}$ | $\frac{1}{4}$ | 1.30 | 2.30 | 6 | 3 | $1\frac{1}{8}$ | 2.70 | 4.50 | 6 | 3 |
| $\frac{5}{16}$ | .65 | ..... | $5\frac{3}{8}$ | 3 | $\frac{5}{16}$ | 1.40 | 2.40 | 6 | 3 | $1\frac{1}{4}$ | 2.80 | 4.75 | 6 | 3 |
| $\frac{3}{8}$ | .70 | ..... | 6 | 3 | $\frac{3}{8}$ | 1.50 | 2.50 | 6 | 3 | $1\frac{3}{8}$ | 2.90 | 5.00 | 6 | 3 |
| $\frac{7}{16}$ | .75 | ..... | 6 | 3 | $\frac{7}{16}$ | 1.60 | 2.65 | 6 | 3 | $1\frac{1}{2}$ | 3.00 | 5.25 | 6 | 3 |
| $\frac{1}{2}$ | .80 | ..... | 6 | 3 | $\frac{1}{2}$ | 1.70 | 2.75 | 6 | 3 | $1\frac{5}{8}$ | 3.10 | 5.50 | 6 | 3 |
| $\frac{9}{16}$ | .85 | ..... | 6 | 3 | $\frac{9}{16}$ | 1.80 | 2.90 | 6 | 3 | $1\frac{3}{4}$ | 3.20 | 5.80 | 6 | 3 |
| $\frac{5}{8}$ | .90 | ..... | 6 | 3 | $\frac{5}{8}$ | 1.90 | 3.00 | 6 | 3 | $1\frac{7}{8}$ | 3.30 | 6.10 | 6 | 3 |
| $\frac{11}{16}$ | .95 | ..... | 6 | 3 | $\frac{11}{16}$ | 2.00 | 3.15 | 6 | 3 | $1\frac{1}{2}$ | 3.60 | ..... | 6 | 3 |
| $\frac{3}{4}$ | 1.00 | ..... | 6 | 3 | $\frac{3}{4}$ | 2.10 | 3.30 | 6 | 3 | $1\frac{5}{8}$ | 3.90 | ..... | 6 | 3 |
| $\frac{7}{8}$ | 1.05 | ..... | 6 | 3 | $\frac{7}{8}$ | 2.20 | 3.50 | 6 | 3 | $1\frac{3}{4}$ | 4.20 | ..... | 6 | 3 |
| $1\frac{1}{8}$ | 1.10 | \$1.85 | 6 | 3 | $1\frac{1}{8}$ | 2.30 | 3.70 | 6 | 3 | $1\frac{1}{2}$ | 4.50 | ..... | 6 | 3 |
| $1\frac{1}{4}$ | 1.15 | 1.95 | 6 | 3 | $1\frac{1}{4}$ | 2.40 | 3.90 | 6 | 3 | | | | | |

MORSE RATCHET**No. 400—Carbon Steel**

Small Shank or No. 1. Size of Shank $\frac{3}{8} \times \frac{5}{8} \times 1\frac{1}{2}$ in. This size Shank always furnished unless otherwise specified.

| Diam., Inches | Each | | Length, Inches | Twist, Inches | Diam., Inches | Each | | Length, Inches | Twist, Inches | Diam., Inches | Each | | Length, Inches | Twist, Inches |
|------------------|-----------------|------------------------|-------------------|------------------|------------------|-----------------|------------------------|-------------------|------------------|------------------|-----------------|------------------------|-------------------|------------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{8}$ | \$0.90 | ..... | $4\frac{1}{8}$ | $1\frac{1}{8}$ | $\frac{1}{8}$ | \$1.40 | \$3.10 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{8}$ | \$2.85 | \$6.00 | 9 | $6\frac{1}{8}$ |
| $\frac{3}{16}$ | .95 | ..... | $4\frac{1}{8}$ | $2\frac{3}{8}$ | $\frac{3}{16}$ | 1.40 | 3.20 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{4}$ | 3.00 | 6.30 | 9 | $6\frac{1}{8}$ |
| $\frac{1}{4}$ | .95 | ..... | $4\frac{1}{8}$ | $2\frac{3}{8}$ | $\frac{1}{4}$ | 1.45 | 3.30 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{8}$ | 3.10 | 6.70 | 9 | $6\frac{1}{8}$ |
| $\frac{5}{16}$ | 1.00 | ..... | $4\frac{1}{8}$ | $2\frac{3}{8}$ | $\frac{5}{16}$ | 1.45 | 3.40 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{4}$ | 3.25 | 7.00 | 9 | $6\frac{1}{8}$ |
| $\frac{3}{8}$ | 1.00 | \$2.50 | 5 | $2\frac{3}{8}$ | $\frac{3}{8}$ | 1.50 | 3.50 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{8}$ | 3.35 | 7.30 | 9 | $6\frac{1}{8}$ |
| $\frac{7}{16}$ | 1.05 | 2.55 | 5 | $2\frac{3}{8}$ | $\frac{7}{16}$ | 1.55 | 3.65 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{4}$ | 3.50 | 7.60 | 9 | $6\frac{1}{8}$ |
| $\frac{1}{2}$ | 1.10 | 2.60 | 5 | $2\frac{3}{8}$ | $\frac{1}{2}$ | 1.65 | 3.80 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{3}{8}$ | 3.65 | 7.90 | 9 | $6\frac{1}{8}$ |
| $\frac{9}{16}$ | 1.15 | 2.65 | 5 | $2\frac{3}{8}$ | $\frac{9}{16}$ | 1.75 | 4.00 | 7 | $4\frac{1}{4}$ | $1\frac{1}{2}$ | 3.75 | 8.25 | 9 | $6\frac{1}{8}$ |
| $\frac{5}{8}$ | 1.20 | 2.70 | 6 | $3\frac{1}{8}$ | $\frac{5}{8}$ | 1.90 | 4.20 | $7\frac{1}{4}$ | $4\frac{1}{4}$ | $1\frac{1}{4}$ | 3.90 | 8.60 | 9 | $6\frac{1}{8}$ |
| $\frac{11}{16}$ | 1.25 | 2.75 | $6\frac{1}{4}$ | 4 | $\frac{11}{16}$ | 2.05 | 4.50 | $7\frac{1}{2}$ | $5\frac{1}{8}$ | $1\frac{3}{8}$ | 4.05 | 9.00 | 9 | $6\frac{1}{8}$ |
| $\frac{3}{4}$ | 1.25 | 2.80 | $6\frac{1}{4}$ | 4 | $\frac{3}{4}$ | 2.20 | 4.70 | $7\frac{3}{4}$ | $5\frac{1}{8}$ | $1\frac{1}{2}$ | 4.20 | 9.40 | 9 | $6\frac{1}{8}$ |
| $\frac{7}{8}$ | 1.30 | 2.85 | $6\frac{1}{4}$ | 4 | $\frac{7}{8}$ | 2.30 | 5.00 | 8 | $5\frac{1}{8}$ | $1\frac{1}{4}$ | 4.35 | 9.80 | 9 | $6\frac{1}{8}$ |
| $1\frac{1}{8}$ | 1.30 | 2.90 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{8}$ | 2.40 | 5.25 | $8\frac{1}{4}$ | $5\frac{1}{8}$ | $1\frac{1}{8}$ | 4.50 | 10.20 | 9 | $6\frac{1}{8}$ |
| $1\frac{1}{4}$ | 1.35 | 2.95 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{4}$ | 2.55 | 5.50 | $8\frac{1}{2}$ | $6\frac{1}{8}$ | $1\frac{1}{4}$ | 4.65 | 10.60 | 9 | $6\frac{1}{8}$ |
| $1\frac{1}{2}$ | 1.35 | 3.00 | $6\frac{1}{2}$ | $4\frac{1}{4}$ | $1\frac{1}{2}$ | 2.70 | 5.75 | $8\frac{3}{4}$ | $6\frac{1}{8}$ | $1\frac{1}{2}$ | 4.80 | 11.00 | 9 | $6\frac{1}{8}$ |

When ordering Taper Square Shank Drills for Packer Ratchets please state Number of Ratchet and Name of Manufacturer. 64th sizes furnished at price of next larger size.

STRAIGHTWAY DRILLS

MORSE TAPER SHANK

No. 425—Carbon Steel



No. 1425—High Speed Steel

| Diam., Inch. | Each | | Length, Inches | Taper Shank | Diam., Inch. | Each | | Length, Inches | Taper Shank | Diam., Inch. | Each | | Length, Inches | Taper Shank |
|------------------|-----------------|------------------------|-------------------|----------------|------------------|-----------------|------------------------|-------------------|----------------|------------------|-----------------|------------------------|-------------------|----------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{16}$ | \$0.60 | \$1.10 | $6\frac{1}{2}$ | No. 1. | $\frac{1}{16}$ | \$2.40 | \$4.40 | $10\frac{1}{4}$ | No. 2. | $\frac{1}{16}$ | \$7.50 | \$15.50 | $14\frac{3}{4}$ | No. 4. |
| $\frac{1}{8}$ | .65 | 1.20 | $6\frac{1}{2}$ | | $\frac{1}{8}$ | 2.60 | 4.75 | $10\frac{1}{2}$ | | $\frac{1}{8}$ | 8.00 | 16.40 | $14\frac{3}{4}$ | |
| $\frac{3}{16}$ | .70 | 1.30 | $6\frac{1}{2}$ | | $\frac{3}{16}$ | 2.80 | 5.15 | $10\frac{3}{4}$ | | $\frac{3}{16}$ | 8.50 | 17.25 | 15 | |
| $\frac{1}{4}$ | .75 | 1.40 | $6\frac{1}{2}$ | | $\frac{1}{4}$ | 3.00 | 5.50 | $10\frac{3}{4}$ | | $\frac{1}{4}$ | 9.00 | 18.15 | 15 | |
| $\frac{5}{16}$ | .80 | 1.50 | $6\frac{1}{2}$ | | $\frac{5}{16}$ | 3.25 | 5.90 | $10\frac{3}{4}$ | | $\frac{5}{16}$ | 9.50 | 19.00 | $15\frac{1}{4}$ | |
| $\frac{3}{8}$ | .90 | 1.65 | 7 | | $\frac{3}{8}$ | 3.50 | 6.25 | 11 | | $\frac{3}{8}$ | 10.00 | 20.00 | $15\frac{1}{2}$ | |
| $\frac{7}{16}$ | 1.00 | 1.75 | $7\frac{1}{4}$ | | $\frac{7}{16}$ | 3.75 | 6.75 | $11\frac{1}{4}$ | | $\frac{7}{16}$ | 10.50 | 21.00 | $15\frac{1}{2}$ | |
| $\frac{1}{2}$ | 1.10 | 1.90 | $7\frac{1}{2}$ | | $\frac{1}{2}$ | 4.00 | 7.25 | $11\frac{1}{2}$ | | $\frac{1}{2}$ | 11.00 | 22.00 | $15\frac{1}{2}$ | |
| $\frac{9}{16}$ | 1.20 | 2.00 | $7\frac{3}{4}$ | | $\frac{9}{16}$ | 4.25 | 7.75 | $11\frac{3}{4}$ | | $\frac{9}{16}$ | 11.50 | 23.00 | $15\frac{3}{4}$ | |
| $\frac{5}{8}$ | 1.30 | 2.15 | 8 | | $\frac{5}{8}$ | 4.50 | 8.25 | $11\frac{3}{4}$ | | $\frac{5}{8}$ | 12.00 | 24.00 | $15\frac{3}{4}$ | |
| $\frac{3}{4}$ | 1.40 | 2.25 | $8\frac{1}{4}$ | No. 2. | $\frac{3}{4}$ | 4.75 | 8.90 | $11\frac{3}{4}$ | No. 3. | $\frac{3}{4}$ | 12.50 | 25.00 | 16 | No. 4. |
| $\frac{7}{8}$ | 1.50 | 2.40 | $8\frac{1}{2}$ | | $\frac{7}{8}$ | 5.00 | 9.50 | 12 | | $\frac{7}{8}$ | 13.25 | 26.25 | 16 | |
| $\frac{15}{16}$ | 1.60 | 2.50 | $8\frac{3}{4}$ | | $\frac{15}{16}$ | 5.25 | 10.15 | $12\frac{1}{4}$ | | $\frac{15}{16}$ | 14.00 | 27.50 | $16\frac{1}{4}$ | |
| 1 | 1.70 | 2.75 | 9 | | 1 | 5.50 | 10.75 | $12\frac{1}{2}$ | | 1 | 14.75 | 28.75 | $16\frac{1}{4}$ | |
| $\frac{1 1}{16}$ | 1.80 | 3.00 | $9\frac{1}{4}$ | | $\frac{1 1}{16}$ | 6.00 | 11.50 | $14\frac{1}{4}$ | | $\frac{1 1}{16}$ | 15.50 | 30.00 | $16\frac{1}{2}$ | |
| $\frac{1 1}{8}$ | 1.90 | 3.25 | $9\frac{1}{2}$ | | $\frac{1 1}{8}$ | 6.25 | 12.25 | $14\frac{1}{2}$ | | $\frac{1 1}{8}$ | 16.25 | 31.25 | $16\frac{1}{2}$ | |
| $\frac{1 1}{4}$ | 2.00 | 3.50 | $9\frac{3}{4}$ | | $\frac{1 1}{4}$ | 6.50 | 13.00 | $14\frac{3}{4}$ | | $\frac{1 1}{4}$ | 17.00 | 32.50 | $16\frac{1}{2}$ | |
| $\frac{1 3}{8}$ | 2.10 | 3.75 | 10 | | $\frac{1 3}{8}$ | 7.00 | 14.65 | $14\frac{3}{4}$ | | $\frac{1 3}{8}$ | 17.75 | 33.75 | $16\frac{1}{2}$ | |
| $\frac{1 1}{2}$ | 2.20 | 4.00 | 10 | | $\frac{1 1}{2}$ | | | $14\frac{3}{4}$ | | $\frac{1 1}{2}$ | 18.50 | 35.00 | $16\frac{1}{2}$ | |

MORSE STRAIGHT SHANK, TAPER LENGTHS

No. 428—Carbon Steel



No. 1428—High Speed Steel

| Diam., Inch. | Each | | Length, Inches | Length Flute, Inches | Diam., Inch. | Each | | Length, Inches | Length Flute, Inches | Diam., Inch. | Each | | Length, Inches | Length Flute, Inches |
|------------------|-----------------|------------------------|-------------------|----------------------------|------------------|-----------------|------------------------|-------------------|----------------------------|------------------|-----------------|------------------------|-------------------|----------------------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{16}$ | \$0.60 | \$1.10 | $6\frac{1}{2}$ | 4 | $\frac{1}{16}$ | \$2.10 | \$3.75 | 9 $\frac{3}{4}$ | $6\frac{1}{2}$ | $\frac{1}{16}$ | \$5.75 | \$11.50 | $14\frac{3}{4}$ | 9 $\frac{3}{4}$ |
| $\frac{1}{8}$ | .65 | 1.20 | $6\frac{1}{2}$ | 4 | $\frac{1}{8}$ | 2.20 | 4.00 | 10 | $6\frac{5}{8}$ | $\frac{1}{8}$ | 6.00 | 12.25 | $14\frac{3}{4}$ | 9 $\frac{3}{4}$ |
| $\frac{3}{16}$ | .70 | 1.30 | $6\frac{1}{2}$ | 4 | $\frac{3}{16}$ | 2.40 | 4.40 | $10\frac{1}{4}$ | $6\frac{3}{4}$ | $\frac{3}{16}$ | 6.25 | 13.00 | $14\frac{3}{4}$ | 9 $\frac{3}{4}$ |
| $\frac{1}{4}$ | .75 | 1.40 | $6\frac{1}{2}$ | 4 | $\frac{1}{4}$ | 2.60 | 4.75 | $10\frac{1}{2}$ | 7 | $\frac{1}{4}$ | 6.50 | 13.75 | $14\frac{3}{4}$ | 9 $\frac{3}{4}$ |
| $\frac{5}{16}$ | .80 | 1.50 | $6\frac{1}{2}$ | 4 | $\frac{5}{16}$ | 2.80 | 5.15 | $10\frac{3}{4}$ | 7 | $\frac{5}{16}$ | 7.00 | 14.65 | $14\frac{3}{4}$ | 9 $\frac{3}{4}$ |
| $\frac{3}{8}$ | .90 | 1.65 | 7 | 4 | $\frac{3}{8}$ | 3.00 | 5.50 | $10\frac{3}{4}$ | 7 | $\frac{3}{8}$ | 7.50 | 15.50 | $14\frac{3}{4}$ | 9 $\frac{3}{4}$ |
| $\frac{7}{16}$ | 1.00 | 1.75 | $7\frac{1}{4}$ | 4 | $\frac{7}{16}$ | 3.25 | 5.90 | $10\frac{3}{4}$ | $7\frac{1}{4}$ | $\frac{7}{16}$ | 8.00 | 16.40 | $14\frac{3}{4}$ | 9 $\frac{3}{4}$ |
| $\frac{1}{2}$ | 1.10 | 1.90 | $7\frac{1}{2}$ | 4 | $\frac{1}{2}$ | 3.50 | 6.25 | 11 | $7\frac{1}{2}$ | $\frac{1}{2}$ | 8.50 | 17.25 | 15 | 9 $\frac{3}{4}$ |
| $\frac{9}{16}$ | 1.20 | 2.00 | $7\frac{3}{4}$ | 4 | $\frac{9}{16}$ | 3.75 | 6.75 | $11\frac{1}{4}$ | $7\frac{3}{4}$ | $\frac{9}{16}$ | 9.00 | 18.15 | $15\frac{1}{4}$ | 9 $\frac{3}{4}$ |
| $\frac{5}{8}$ | 1.30 | 2.15 | 8 | 4 | $\frac{5}{8}$ | 4.00 | 7.25 | $11\frac{1}{2}$ | 8 | $\frac{5}{8}$ | 9.50 | 19.00 | $15\frac{1}{2}$ | 9 $\frac{3}{4}$ |
| $\frac{3}{4}$ | 1.40 | 2.25 | $8\frac{1}{4}$ | 4 | $\frac{3}{4}$ | 4.25 | 7.75 | $11\frac{3}{4}$ | $8\frac{1}{4}$ | $\frac{3}{4}$ | 10.50 | 21.00 | $15\frac{1}{2}$ | 10 |
| $\frac{7}{8}$ | 1.50 | 2.40 | $8\frac{1}{2}$ | 4 | $\frac{7}{8}$ | 4.50 | 8.25 | $11\frac{3}{4}$ | $8\frac{1}{2}$ | $\frac{7}{8}$ | 11.00 | 22.00 | $15\frac{1}{2}$ | 10 |
| $\frac{15}{16}$ | 1.60 | 2.50 | $8\frac{3}{4}$ | 4 | $\frac{15}{16}$ | 4.75 | 8.90 | $11\frac{3}{4}$ | $8\frac{3}{4}$ | $\frac{15}{16}$ | 12.50 | 25.00 | 16 | $10\frac{1}{2}$ |
| 1 | 1.70 | 2.75 | 9 | 4 | 1 | 5.00 | 9.50 | 12 | 8 $\frac{1}{2}$ | 1 | 14.00 | 27.50 | $16\frac{1}{4}$ | $10\frac{1}{2}$ |
| $\frac{1 1}{16}$ | 1.80 | 3.00 | $9\frac{1}{4}$ | 4 | $\frac{1 1}{16}$ | 5.25 | 10.15 | $12\frac{1}{4}$ | 8 $\frac{1}{4}$ | $\frac{1 1}{16}$ | 15.50 | 30.00 | $16\frac{1}{2}$ | 11 |
| $\frac{1 1}{8}$ | 1.90 | 3.25 | $9\frac{1}{2}$ | 4 | $\frac{1 1}{8}$ | 5.50 | 10.75 | $12\frac{1}{2}$ | 8 $\frac{1}{2}$ | $\frac{1 1}{8}$ | 17.00 | 32.50 | $16\frac{1}{2}$ | 11 |
| $\frac{1 1}{4}$ | 2.00 | 3.50 | $9\frac{3}{4}$ | 4 | $\frac{1 1}{4}$ | | | $12\frac{1}{2}$ | 8 $\frac{1}{2}$ | $\frac{1 1}{4}$ | 18.50 | 35.00 | $16\frac{1}{2}$ | 11 |

THREE-GROOVE DRILLS

MORSE TAPER SHANK

No. 450—Carbon Steel



No. 1450—High Speed Steel

| Diam. Inch. | Each | | Length, Inches | Taper Shank | Diam. Inch. | Each | | Length, Inches | Taper Shank | Diam. Inch. | Each | | Length, Inches | Taper Shank |
|------------------|-----------------|------------------------|-------------------|------------------|----------------|-----------------|------------------------|-------------------|----------------|----------------|-----------------|------------------------|-------------------|----------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{16}$ | \$1.00 | \$2.00 | $6\frac{1}{2}$ | No. 1. | $\frac{1}{16}$ | \$3.75 | \$9.00 | $11\frac{1}{4}$ | No. 3. | $\frac{1}{16}$ | \$14.00 | \$28.50 | $16\frac{1}{4}$ | No. 4. |
| $\frac{1}{8}$ | 1.05 | 2.15 | $6\frac{1}{2}$ | | $\frac{1}{8}$ | 4.00 | 9.50 | $11\frac{1}{4}$ | | $\frac{1}{8}$ | 14.75 | 29.50 | $16\frac{1}{4}$ | |
| $\frac{3}{16}$ | 1.10 | 2.25 | $6\frac{1}{2}$ | | $\frac{3}{16}$ | 4.25 | 10.25 | $11\frac{1}{2}$ | | $\frac{3}{16}$ | 15.50 | 30.50 | $16\frac{1}{2}$ | |
| $\frac{1}{4}$ | 1.15 | 2.40 | $6\frac{1}{2}$ | | $\frac{1}{4}$ | 4.50 | 11.00 | $11\frac{1}{2}$ | | $\frac{1}{4}$ | 16.25 | 31.50 | $16\frac{1}{2}$ | |
| $\frac{5}{16}$ | 1.20 | 2.50 | $6\frac{1}{2}$ | | $\frac{5}{16}$ | 4.75 | 11.75 | $11\frac{3}{4}$ | | $\frac{5}{16}$ | 17.00 | 32.50 | $16\frac{1}{2}$ | |
| $\frac{3}{8}$ | 1.25 | 2.65 | 7 | | $\frac{3}{8}$ | 5.00 | 12.50 | 12 | | $\frac{3}{8}$ | 17.75 | 33.50 | $16\frac{1}{2}$ | |
| $\frac{7}{16}$ | 1.30 | 2.75 | $7\frac{1}{4}$ | | $\frac{7}{16}$ | 5.25 | 13.25 | $12\frac{1}{4}$ | | $\frac{7}{16}$ | 18.50 | 34.50 | $16\frac{1}{2}$ | |
| $\frac{1}{2}$ | 1.40 | 2.90 | $7\frac{1}{2}$ | | $\frac{1}{2}$ | 5.50 | 14.00 | $12\frac{1}{2}$ | | $\frac{1}{2}$ | | | | |
| $\frac{9}{16}$ | 1.50 | 3.00 | $7\frac{3}{4}$ | | $\frac{9}{16}$ | | | | | $\frac{9}{16}$ | 19.25 | 36.00 | $16\frac{1}{2}$ | |
| $\frac{5}{8}$ | 1.60 | 3.15 | 8 | | $\frac{5}{8}$ | 5.75 | 14.75 | $14\frac{1}{4}$ | No. 4. | $\frac{5}{8}$ | 20.00 | 37.50 | 17 | No. 5. |
| $\frac{3}{4}$ | 1.70 | 3.25 | $8\frac{1}{4}$ | $\frac{3}{4}$ | 6.00 | 15.50 | $14\frac{1}{4}$ | $\frac{3}{4}$ | | 21.50 | 40.50 | 17 | | |
| $\frac{7}{8}$ | 1.80 | 3.50 | $8\frac{1}{2}$ | $\frac{7}{8}$ | 6.25 | 16.25 | $14\frac{1}{4}$ | $\frac{7}{8}$ | | 23.00 | 43.75 | 17 | | |
| $\frac{15}{16}$ | 1.90 | 3.75 | $8\frac{3}{4}$ | $\frac{15}{16}$ | 6.50 | 17.00 | $14\frac{1}{4}$ | $\frac{15}{16}$ | | 24.50 | 47.50 | $17\frac{1}{2}$ | | |
| 1 | 2.00 | 4.00 | 9 | 1 | 7.00 | 18.50 | $14\frac{1}{4}$ | 1 | | 26.00 | 52.50 | $17\frac{1}{2}$ | | |
| $\frac{1 1}{16}$ | 2.10 | 4.25 | $9\frac{1}{4}$ | $\frac{1 1}{16}$ | 7.50 | 19.25 | $14\frac{1}{4}$ | $\frac{1 1}{16}$ | | 27.50 | 60.00 | 18 | | |
| $\frac{1 1}{8}$ | 2.25 | 4.65 | $9\frac{1}{2}$ | $\frac{1 1}{8}$ | 8.00 | 20.00 | $14\frac{1}{4}$ | $\frac{1 1}{8}$ | | 29.00 | 65.00 | $18\frac{1}{2}$ | | |
| $\frac{1 1}{4}$ | 2.40 | 5.00 | $9\frac{3}{4}$ | $\frac{1 1}{4}$ | 8.50 | 20.75 | 15 | $\frac{1 1}{4}$ | | 30.50 | 70.00 | 19 | | |
| $\frac{3}{8}$ | 2.55 | 5.40 | $9\frac{3}{4}$ | $\frac{3}{8}$ | 9.00 | 21.50 | $15\frac{1}{4}$ | $\frac{3}{8}$ | | 32.00 | 76.25 | $19\frac{1}{4}$ | | |
| $\frac{7}{16}$ | 2.70 | 5.75 | 10 | $\frac{7}{16}$ | 10.00 | 22.25 | $15\frac{1}{4}$ | $\frac{7}{16}$ | | 34.00 | 82.50 | $19\frac{1}{2}$ | | |
| $\frac{1}{2}$ | 2.85 | 6.15 | $10\frac{1}{4}$ | No. 2. | $\frac{1}{2}$ | 10.50 | 23.00 | $15\frac{1}{2}$ | No. 4. | $\frac{1}{2}$ | 36.00 | 88.75 | 20 | No. 5. |
| $\frac{9}{16}$ | 3.00 | 6.50 | $10\frac{1}{2}$ | | $\frac{9}{16}$ | 11.00 | 23.75 | $15\frac{1}{2}$ | | $\frac{9}{16}$ | 38.00 | 95.00 | $20\frac{1}{2}$ | |
| $\frac{5}{8}$ | 3.15 | 7.00 | $10\frac{3}{4}$ | | $\frac{5}{8}$ | 11.50 | 24.50 | $15\frac{3}{4}$ | | $\frac{5}{8}$ | 40.50 | 102.50 | $20\frac{1}{2}$ | |
| $\frac{3}{4}$ | 3.30 | 7.50 | $10\frac{3}{4}$ | No. 3. | $\frac{3}{4}$ | 12.00 | 25.50 | $15\frac{3}{4}$ | No. 4. | $\frac{3}{4}$ | 43.00 | 110.00 | 21 | No. 5. |
| $\frac{7}{8}$ | 3.45 | 8.00 | $10\frac{3}{4}$ | | $\frac{7}{8}$ | 12.50 | 26.50 | 16 | | $\frac{7}{8}$ | 45.50 | 117.50 | 21 | |
| 1 | 3.60 | 8.50 | 11 | | 1 | 13.25 | 27.50 | 16 | | 1 | 48.00 | 125.00 | 22 | |

No. 1452—High Speed Steel.

| Diam., Inches | Each | | |
|------------------|-----------------|------------------------|-------------------|
| | Carbon Steel | High Speed Steel | Length, Inches |
| ¼ | \$1.00 | \$2.00 | 6 ½ |
| ⅜ | 1.05 | 2.15 | 6 ¾ |
| ½ | 1.10 | 2.25 | 6 ¾ |
| ⅝ | 1.15 | 2.40 | 6 ¾ |
| ¾ | 1.20 | 2.50 | 6 ¾ |
| 7⁄8 | 1.25 | 2.65 | 7 |
| 1 | 1.30 | 2.75 | 7 ¼ |
| 1 1⁄8 | 1.40 | 2.90 | 7 ½ |
| 1 ¼ | 1.50 | 3.00 | 7 ¾ |
| 1 ½ | 1.60 | 3.15 | 8 |
| 1 ¾ | 1.70 | 3.25 | 8 ¼ |
| 2 | 1.80 | 3.50 | 8 ½ |
| 2 ¼ | 1.90 | 3.75 | 8 ¾ |
| 2 ½ | 2.00 | 4.00 | 9 |
| 2 ¾ | 2.10 | 4.25 | 9 ¼ |

No. 1454—High Speed Steel

| Diam., Inches | Each | | Length, Inches | Morse Taper Shank | Diam., Inches | Each | | Length, Inches | Morse Taper Shank | Diam., Inches | Each | | Length, Inches | Morse Taper Shank |
|------------------|-----------------|------------------------|-------------------|-------------------------|------------------|-----------------|------------------------|-------------------|-------------------------|------------------|-----------------|------------------------|-------------------|-------------------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{2}$ | \$1.50 | \$ 3.00 | 7 $\frac{3}{4}$ | No. 1 | $1\frac{3}{4}$ | \$ 5.00 | \$12.50 | 12 | No. 2 | 1 $\frac{7}{8}$ | \$15.50 | \$30.50 | 16 $\frac{1}{2}$ | No. 4 |
| $\frac{11}{16}$ | 1.60 | 3.15 | 8 | | $1\frac{5}{8}$ | 5.25 | 13.25 | 12 $\frac{1}{8}$ | | $1\frac{13}{16}$ | 16.25 | 31.50 | 16 $\frac{1}{2}$ | |
| $\frac{15}{16}$ | 1.70 | 3.25 | 8 $\frac{1}{4}$ | | $1\frac{7}{8}$ | 5.50 | 14.00 | 12 $\frac{1}{2}$ | | $1\frac{15}{16}$ | 17.00 | 32.50 | 16 $\frac{1}{2}$ | |
| $\frac{13}{16}$ | 1.80 | 3.50 | 8 $\frac{1}{2}$ | No. 2 | $1\frac{3}{2}$ | 5.75 | 14.75 | 14 $\frac{1}{8}$ | No. 3 | 2 | 18.50 | 34.50 | 16 $\frac{1}{2}$ | No. 4 |
| $\frac{5}{8}$ | 1.90 | 3.75 | 8 $\frac{3}{4}$ | | $1\frac{1}{2}$ | 6.00 | 15.50 | 14 $\frac{1}{4}$ | | $2\frac{1}{16}$ | 19.25 | 36.00 | 16 $\frac{1}{2}$ | |
| $\frac{3}{4}$ | 2.00 | 4.00 | 9 | | $1\frac{1}{4}$ | 6.25 | 16.25 | 14 $\frac{3}{8}$ | | $2\frac{1}{8}$ | 20.00 | 37.50 | 17 | |
| $\frac{7}{8}$ | 2.10 | 4.25 | 9 $\frac{1}{4}$ | No. 3 | $1\frac{3}{8}$ | 6.50 | 17.00 | 14 $\frac{1}{2}$ | No. 4 | $2\frac{1}{4}$ | 21.50 | 40.50 | 17 | No. 5 |
| $\frac{15}{16}$ | 2.25 | 4.65 | 9 $\frac{1}{2}$ | | $1\frac{1}{2}$ | 7.00 | 17.75 | 14 $\frac{5}{8}$ | | $2\frac{3}{8}$ | 23.00 | 43.75 | 17 | |
| $\frac{1}{8}$ | 2.40 | 5.00 | 9 $\frac{3}{4}$ | | $1\frac{5}{8}$ | 7.50 | 18.50 | 14 $\frac{3}{4}$ | | $2\frac{1}{2}$ | 24.50 | 47.50 | 17 $\frac{1}{2}$ | |
| $\frac{1}{4}$ | 2.55 | 5.40 | 9 $\frac{7}{8}$ | No. 4 | $1\frac{3}{4}$ | 8.00 | 19.25 | 14 $\frac{7}{8}$ | No. 5 | $2\frac{5}{8}$ | 26.00 | 52.50 | 17 $\frac{1}{2}$ | No. 6 |
| $\frac{3}{8}$ | 2.70 | 5.75 | 10 | | $1\frac{1}{2}$ | 8.50 | 20.00 | 15 | | $2\frac{3}{4}$ | 27.50 | 60.00 | 18 | |
| $\frac{1}{2}$ | 2.85 | 6.15 | 10 $\frac{1}{4}$ | | $1\frac{1}{4}$ | 9.00 | 20.75 | 15 | | $2\frac{7}{8}$ | 29.00 | 65.00 | 18 $\frac{1}{2}$ | |
| $\frac{5}{8}$ | 3.00 | 6.50 | 10 $\frac{1}{2}$ | No. 5 | $1\frac{3}{8}$ | 9.50 | 21.50 | 15 $\frac{1}{4}$ | No. 6 | $2\frac{1}{2}$ | 30.50 | 70.00 | 19 | No. 7 |
| $\frac{3}{4}$ | 3.15 | 7.00 | 10 $\frac{3}{8}$ | | $1\frac{1}{2}$ | 10.00 | 22.25 | 15 $\frac{1}{2}$ | | $2\frac{1}{4}$ | 32.00 | 76.25 | 19 $\frac{1}{4}$ | |
| $\frac{7}{8}$ | 3.30 | 7.50 | 10 $\frac{7}{8}$ | | $1\frac{5}{8}$ | 10.50 | 23.00 | 15 $\frac{3}{8}$ | | 2 $\frac{3}{8}$ | 34.00 | 82.50 | 19 $\frac{1}{2}$ | |
| $\frac{15}{16}$ | 3.45 | 8.00 | 10 $\frac{7}{8}$ | No. 6 | $1\frac{3}{4}$ | 11.00 | 23.75 | 15 $\frac{1}{2}$ | No. 7 | $2\frac{1}{2}$ | 36.00 | 88.75 | 20 | No. 8 |
| $\frac{1}{8}$ | 3.60 | 8.50 | 11 | | $1\frac{1}{2}$ | 11.50 | 24.50 | 15 $\frac{3}{4}$ | | $2\frac{3}{4}$ | 38.00 | 95.00 | 20 $\frac{1}{2}$ | |
| $1\frac{1}{16}$ | 3.75 | 9.00 | 11 $\frac{1}{8}$ | | $1\frac{1}{4}$ | 12.00 | 25.50 | 15 $\frac{7}{8}$ | | $2\frac{1}{2}$ | 40.50 | 102.50 | 20 $\frac{1}{2}$ | |
| $1\frac{1}{8}$ | 4.00 | 9.50 | 11 $\frac{1}{4}$ | No. 7 | $1\frac{3}{8}$ | 12.50 | 26.50 | 16 | No. 8 | $2\frac{1}{4}$ | 43.00 | 110.00 | 21 | No. 9 |
| $1\frac{1}{4}$ | 4.25 | 10.25 | 11 $\frac{1}{2}$ | | $1\frac{1}{2}$ | 13.25 | 27.50 | 16 | | 2 $\frac{5}{8}$ | 45.50 | 117.50 | 21 | |
| $1\frac{3}{8}$ | 4.50 | 11.00 | 11 $\frac{3}{4}$ | | $1\frac{5}{8}$ | 14.00 | 28.50 | 16 $\frac{1}{4}$ | | 3 | 48.00 | 125.00 | 22 | |
| $1\frac{1}{2}$ | 4.75 | 11.75 | 11 $\frac{7}{8}$ | No. 8 | $1\frac{3}{4}$ | 14.75 | 29.50 | 16 $\frac{3}{4}$ | No. 9 | | | | | No. 10 |

No. 1456—High Speed Steel

[illegible]

OIL HOLE DRILLS

MORSE TAPER SHANK



For End Lubrication

For Side Lubrication

No. 473—Carbon Steel.

No. 1473—High Speed Steel

No. 474—Carbon Steel.

No. 1474—High Speed Steel

| Diam., Inches | Each | | Length, Inches | Twist, Inches | Taper Shank |
|------------------|-----------------|------------------------|-------------------|------------------|----------------|
| | Carbon Steel | High Speed Steel | | | |
| $\frac{1}{8}$ | \$3.00 | | 6 $\frac{3}{4}$ | 3 $\frac{3}{4}$ | No. 1. |
| $\frac{1}{4}$ | 3.15 | | 7 | 3 $\frac{1}{2}$ | |
| $\frac{3}{8}$ | 3.15 | | 7 | 3 $\frac{1}{4}$ | |
| $\frac{1}{2}$ | 3.30 | | 7 $\frac{1}{4}$ | 3 $\frac{1}{8}$ | |
| $\frac{5}{8}$ | 3.30 | | 7 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | |
| $\frac{3}{4}$ | 3.85 | | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | |
| $\frac{7}{8}$ | 3.85 | | 7 $\frac{1}{2}$ | 4 $\frac{1}{8}$ | |
| 1 | 4.00 | | 7 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | |
| 1 $\frac{1}{8}$ | 4.00 | | 7 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | |
| 1 $\frac{1}{4}$ | 4.15 | | 8 | 4 $\frac{1}{8}$ | |
| 1 $\frac{3}{8}$ | 4.15 | | 8 | 4 $\frac{1}{8}$ | No. 2. |
| 1 $\frac{1}{2}$ | 4.30 | | 8 $\frac{1}{4}$ | 4 $\frac{1}{8}$ | |
| 1 $\frac{3}{4}$ | 4.30 | | 8 $\frac{1}{4}$ | 4 $\frac{1}{8}$ | |
| 2 | 4.50 | | 8 $\frac{1}{2}$ | 4 $\frac{5}{8}$ | |
| 2 $\frac{1}{4}$ | 4.50 | | 8 $\frac{1}{2}$ | 4 $\frac{5}{8}$ | |
| 2 $\frac{1}{2}$ | 4.70 | | 8 $\frac{3}{4}$ | 4 $\frac{7}{8}$ | |
| 2 $\frac{3}{4}$ | 4.70 | | 8 $\frac{3}{4}$ | 4 $\frac{7}{8}$ | |
| 3 | 4.80 | | 9 | 5 $\frac{1}{8}$ | |
| 3 $\frac{1}{4}$ | 4.80 | | 9 | 5 $\frac{1}{8}$ | |
| 3 $\frac{1}{2}$ | 4.95 | | 9 $\frac{1}{4}$ | 5 $\frac{3}{8}$ | |
| 3 $\frac{3}{4}$ | 4.95 | | 9 $\frac{1}{4}$ | 5 $\frac{3}{8}$ | No. 3. |
| 4 | 5.10 | | 9 $\frac{1}{2}$ | 5 $\frac{5}{8}$ | |
| 4 $\frac{1}{4}$ | 5.10 | | 9 $\frac{1}{2}$ | 5 $\frac{5}{8}$ | |
| 4 $\frac{1}{2}$ | 5.20 | | 9 $\frac{3}{4}$ | 5 $\frac{5}{8}$ | |
| 4 $\frac{3}{4}$ | 5.20 | | 9 $\frac{3}{4}$ | 5 $\frac{5}{8}$ | |
| 5 | 5.35 | | 9 $\frac{3}{4}$ | 6 | |
| 5 $\frac{1}{4}$ | 5.35 | | 9 $\frac{3}{4}$ | 6 | |
| 5 $\frac{1}{2}$ | 5.50 | | 10 | 6 $\frac{1}{4}$ | |
| 5 $\frac{3}{4}$ | 5.50 | | 10 | 6 $\frac{1}{4}$ | |
| 6 | 5.70 | | 10 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | |
| 6 $\frac{1}{4}$ | 5.70 | | 10 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | No. 4. |
| 6 $\frac{1}{2}$ | 5.90 | | 10 $\frac{1}{2}$ | 6 $\frac{3}{4}$ | |
| 6 $\frac{3}{4}$ | 5.90 | | 10 $\frac{1}{2}$ | 6 $\frac{3}{4}$ | |
| 7 | 6.05 | | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | |
| 7 $\frac{1}{4}$ | 6.05 | | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | |
| 7 $\frac{1}{2}$ | 6.20 | | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | |
| 7 $\frac{3}{4}$ | 6.20 | | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | |
| 8 | 6.35 | | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | |
| 8 $\frac{1}{4}$ | 6.35 | | 10 $\frac{3}{4}$ | 6 $\frac{3}{4}$ | |
| 8 $\frac{1}{2}$ | 6.50 | | 11 | 6 $\frac{3}{4}$ | |
| 8 $\frac{3}{4}$ | 6.50 | | 11 | 6 $\frac{3}{4}$ | No. 5. |
| 9 | 6.80 | | 11 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | |
| 9 $\frac{1}{4}$ | 6.80 | | 11 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | |
| 9 $\frac{1}{2}$ | 7.10 | | 11 $\frac{1}{4}$ | 6 $\frac{5}{8}$ | |
| 9 $\frac{3}{4}$ | 7.10 | | 11 $\frac{1}{4}$ | 6 $\frac{5}{8}$ | |
| 10 | 7.45 | | 11 $\frac{1}{2}$ | 6 $\frac{5}{8}$ | |
| 10 $\frac{1}{4}$ | 7.45 | | 11 $\frac{1}{2}$ | 6 $\frac{5}{8}$ | |
| 10 $\frac{1}{2}$ | 7.80 | | 11 $\frac{3}{4}$ | 7 $\frac{1}{8}$ | |
| 10 $\frac{3}{4}$ | 7.80 | | 11 $\frac{3}{4}$ | 7 $\frac{1}{8}$ | |
| 11 | 8.00 | | 11 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | |
| 11 $\frac{1}{4}$ | 8.00 | | 11 $\frac{3}{4}$ | 7 $\frac{1}{4}$ | |
| 11 $\frac{1}{2}$ | 8.20 | | 12 | 7 $\frac{3}{8}$ | |
| 11 $\frac{3}{4}$ | 8.20 | | 12 | 7 $\frac{3}{8}$ | |

| Diam., Inches | Each | | Length, Inches | Twist, Inches | Taper Shank |
|------------------|-----------------|------------------------|-------------------|------------------|----------------|
| | Carbon Steel | High Speed Steel | | | |
| 1 $\frac{1}{8}$ | \$8.40 | | 12 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | No. 3. |
| 1 $\frac{1}{4}$ | 8.40 | | 12 $\frac{1}{8}$ | 7 $\frac{1}{2}$ | |
| 1 $\frac{3}{8}$ | 8.70 | | 12 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | |
| 1 $\frac{1}{2}$ | 8.70 | | 12 $\frac{1}{2}$ | 7 $\frac{3}{8}$ | |
| 1 $\frac{3}{4}$ | 9.40 | | 14 $\frac{1}{8}$ | 8 $\frac{1}{2}$ | |
| 2 | 9.40 | | 14 $\frac{1}{8}$ | 8 $\frac{1}{2}$ | |
| 2 $\frac{1}{4}$ | 10.15 | | 14 $\frac{1}{4}$ | 8 $\frac{5}{8}$ | |
| 2 $\frac{1}{2}$ | 10.15 | | 14 $\frac{1}{4}$ | 8 $\frac{5}{8}$ | |
| 2 $\frac{3}{4}$ | 10.95 | | 14 $\frac{3}{8}$ | 8 $\frac{3}{4}$ | |
| 3 | 10.95 | | 14 $\frac{3}{8}$ | 8 $\frac{3}{4}$ | |
| 3 $\frac{1}{4}$ | 11.80 | | 14 $\frac{1}{2}$ | 8 $\frac{3}{4}$ | No. 4. |
| 3 $\frac{1}{2}$ | 11.80 | | 14 $\frac{1}{2}$ | 8 $\frac{3}{4}$ | |
| 3 $\frac{3}{4}$ | 12.30 | | 14 $\frac{5}{8}$ | 9 | |
| 4 | 12.30 | | 14 $\frac{5}{8}$ | 9 | |
| 4 $\frac{1}{4}$ | 12.85 | | 14 $\frac{3}{4}$ | 9 $\frac{1}{4}$ | |
| 4 $\frac{1}{2}$ | 12.85 | | 14 $\frac{3}{4}$ | 9 $\frac{1}{4}$ | |
| 4 $\frac{3}{4}$ | 13.35 | | 14 $\frac{3}{4}$ | 9 $\frac{1}{4}$ | |
| 5 | 13.35 | | 14 $\frac{3}{4}$ | 9 $\frac{1}{4}$ | |
| 5 $\frac{1}{4}$ | 14.00 | | 15 | 9 $\frac{3}{8}$ | |
| 5 $\frac{1}{2}$ | 14.00 | | 15 | 9 $\frac{3}{8}$ | |
| 5 $\frac{3}{4}$ | 14.20 | | 15 | 9 $\frac{3}{8}$ | No. 5. |
| 6 | 14.20 | | 15 | 9 $\frac{3}{8}$ | |
| 6 $\frac{1}{4}$ | 14.40 | | 15 $\frac{1}{4}$ | 9 $\frac{5}{8}$ | |
| 6 $\frac{1}{2}$ | 14.40 | | 15 $\frac{1}{4}$ | 9 $\frac{5}{8}$ | |
| 6 $\frac{3}{4}$ | 14.70 | | 15 $\frac{1}{4}$ | 9 $\frac{5}{8}$ | |
| 7 | 14.70 | | 15 $\frac{1}{4}$ | 9 $\frac{5}{8}$ | |
| 7 $\frac{1}{4}$ | 15.00 | | 15 $\frac{1}{2}$ | 9 $\frac{7}{8}$ | |
| 7 $\frac{1}{2}$ | 15.00 | | 15 $\frac{1}{2}$ | 9 $\frac{7}{8}$ | |
| 7 $\frac{3}{4}$ | 15.35 | | 15 $\frac{1}{2}$ | 9 $\frac{7}{8}$ | |
| 8 | 15.35 | | 15 $\frac{1}{2}$ | 9 $\frac{7}{8}$ | |
| 8 $\frac{1}{4}$ | 15.70 | | 15 $\frac{3}{4}$ | 10 $\frac{1}{8}$ | No. 6. |
| 8 $\frac{1}{2}$ | 15.70 | | 15 $\frac{3}{4}$ | 10 $\frac{1}{8}$ | |
| 8 $\frac{3}{4}$ | 16.10 | | 15 $\frac{3}{4}$ | 10 $\frac{1}{8}$ | |
| 9 | 16.10 | | 15 $\frac{3}{4}$ | 10 $\frac{1}{8}$ | |
| 9 $\frac{1}{4}$ | 16.50 | | 16 | 9 $\frac{1}{2}$ | |
| 9 $\frac{1}{2}$ | 16.50 | | 16 | 9 $\frac{1}{2}$ | |
| 9 $\frac{3}{4}$ | 16.75 | | 16 | 9 $\frac{1}{2}$ | |
| 10 | 16.75 | | 16 | 9 $\frac{1}{2}$ | |
| 10 $\frac{1}{4}$ | 17.00 | | 16 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | |
| 10 $\frac{1}{2}$ | 17.00 | | 16 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | |
| 10 $\frac{3}{4}$ | 17.25 | | 16 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | No. 7. |
| 11 | 17.25 | | 16 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | |
| 11 $\frac{1}{4}$ | 17.50 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 11 $\frac{1}{2}$ | 17.50 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 11 $\frac{3}{4}$ | 17.85 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 12 | 17.85 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 12 $\frac{1}{4}$ | 18.20 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 12 $\frac{1}{2}$ | 18.20 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 12 $\frac{3}{4}$ | 18.60 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 13 | 18.60 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 13 $\frac{1}{4}$ | 19.00 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |
| 2 | 19.00 | | 16 $\frac{1}{2}$ | 10 $\frac{3}{8}$ | |

These drills have holes through the solid metal and have great advantages over any other drill devised for conveying lubricants as well as air to the point. When drilling cast iron, air is sometimes used for blowing out the chips and keeping the drill cool.

*These drills $\frac{1}{8}$ and smaller are furnished with one oil hole only. They can be furnished with two if ordered, but at customer's risk.

OIL HOLE DRILLS

MORSE STRAIGHT SHANK



No. 479—Carbon Steel

No. 1479—High Speed Steel

| Diam. In. | Each | | Lgth. In. | Twist In. | Diam. In. | Each | | Lgth. In. | Twist In. |
|--------------|-----------------|------------------------|--------------|--------------|--------------|-----------------|------------------------|--------------|--------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| 1/16 | \$3.00 | | 6 3/4 | 4 1/4 | 1 1/8 | \$8.20 | | 12 | 8 1/2 |
| 1/8 | 3.15 | | 7 | 4 3/4 | 1 1/4 | 8.40 | | 12 1/2 | 8 1/2 |
| 3/16 | 3.15 | | 7 | 4 3/4 | 1 1/2 | 8.40 | | 12 1/2 | 8 1/2 |
| 1/4 | 3.30 | | 7 1/4 | 4 3/4 | 1 3/4 | 8.70 | | 12 1/2 | 8 1/2 |
| 5/16 | 3.30 | | 7 1/4 | 4 3/4 | 1 3/4 | 8.70 | | 12 1/2 | 8 1/2 |
| 3/8 | 3.85 | | 7 1/2 | 4 3/4 | 1 3/4 | 9.40 | | 14 1/2 | 9 1/2 |
| 7/16 | 3.85 | | 7 1/2 | 4 3/4 | 1 3/4 | 9.40 | | 14 1/2 | 9 1/2 |
| 1/2 | 4.00 | | 7 3/4 | 5 | 1 3/4 | 10.15 | | 14 1/2 | 9 1/2 |
| 5/8 | 4.00 | | 7 3/4 | 5 | 1 3/4 | 10.15 | | 14 1/2 | 9 1/2 |
| 3/4 | 4.15 | | 8 | 5 1/4 | 1 3/4 | 10.95 | | 14 1/2 | 9 1/2 |
| 7/8 | 4.15 | | 8 | 5 1/4 | 1 3/4 | 10.95 | | 14 1/2 | 9 1/2 |
| 1 | 4.30 | | 8 1/4 | 5 3/4 | 1 3/4 | 11.80 | | 14 1/2 | 9 1/2 |
| 1 1/16 | 4.30 | | 8 1/4 | 5 3/4 | 1 3/4 | 11.80 | | 14 1/2 | 9 1/2 |
| 1 1/8 | 4.50 | | 8 1/2 | 5 3/4 | 1 3/4 | 12.30 | | 14 1/2 | 9 1/2 |
| 1 1/4 | 4.50 | | 8 1/2 | 5 3/4 | 1 3/4 | 12.30 | | 14 1/2 | 9 1/2 |
| 1 1/2 | 4.70 | | 8 3/4 | 5 3/4 | 1 3/4 | 12.85 | | 14 1/2 | 9 1/2 |
| 1 3/4 | 4.70 | | 8 3/4 | 5 3/4 | 1 3/4 | 12.85 | | 14 1/2 | 9 1/2 |
| 1 5/8 | 4.80 | | 9 | 5 3/4 | 1 3/4 | 13.35 | | 14 1/2 | 9 1/2 |
| 1 7/8 | 4.80 | | 9 | 5 3/4 | 1 3/4 | 13.35 | | 14 1/2 | 9 1/2 |
| 2 | 4.95 | | 9 1/4 | 6 | 1 3/4 | 14.00 | | 15 | 9 1/2 |
| 2 1/16 | 4.95 | | 9 1/4 | 6 | 1 3/4 | 14.00 | | 15 | 9 1/2 |
| 2 1/8 | 5.10 | | 9 1/2 | 6 3/8 | 1 3/4 | 14.20 | | 15 | 9 1/2 |
| 2 1/4 | 5.10 | | 9 1/2 | 6 3/8 | 1 3/4 | 14.20 | | 15 | 9 1/2 |
| 2 1/2 | 5.20 | | 9 3/4 | 6 3/8 | 1 3/4 | 14.40 | | 15 1/4 | 9 3/4 |
| 2 3/4 | 5.20 | | 9 3/4 | 6 3/8 | 1 3/4 | 14.40 | | 15 1/4 | 9 3/4 |
| 2 5/8 | 5.35 | | 9 3/4 | 6 1/2 | 1 3/4 | 14.70 | | 15 1/4 | 9 3/4 |
| 2 7/8 | 5.35 | | 9 3/4 | 6 1/2 | 1 3/4 | 14.70 | | 15 1/4 | 9 3/4 |
| 3 | 5.50 | | 10 | 6 3/4 | 1 3/4 | 15.00 | | 15 1/2 | 10 |
| 3 1/16 | 5.50 | | 10 | 6 3/4 | 1 3/4 | 15.00 | | 15 1/2 | 10 |
| 3 1/8 | 5.70 | | 10 1/4 | 6 3/4 | 1 3/4 | 15.35 | | 15 1/2 | 10 |
| 3 1/4 | 5.70 | | 10 1/4 | 6 3/4 | 1 3/4 | 15.35 | | 15 1/2 | 10 |
| 3 1/2 | 5.90 | | 10 1/2 | 7 | 1 3/4 | 15.70 | | 15 3/4 | 10 1/4 |
| 3 3/4 | 5.90 | | 10 1/2 | 7 | 1 3/4 | 15.70 | | 15 3/4 | 10 1/4 |
| 3 5/8 | 6.05 | | 10 3/4 | 7 | 1 3/4 | 16.10 | | 15 3/4 | 10 1/4 |
| 3 7/8 | 6.05 | | 10 3/4 | 7 | 1 3/4 | 16.10 | | 15 3/4 | 10 1/4 |
| 4 | 6.20 | | 10 3/4 | 7 | 1 3/4 | 16.50 | | 16 | 10 1/2 |
| 4 1/16 | 6.20 | | 10 3/4 | 7 | 1 3/4 | 16.50 | | 16 | 10 1/2 |
| 4 1/8 | 6.35 | | 10 3/4 | 7 1/8 | 1 3/4 | 16.75 | | 16 | 10 1/2 |
| 4 1/4 | 6.35 | | 10 3/4 | 7 1/8 | 1 3/4 | 16.75 | | 16 | 10 1/2 |
| 4 1/2 | 6.50 | | 11 | 7 3/8 | 1 3/4 | 17.00 | | 16 1/4 | 10 3/4 |
| 4 3/4 | 6.50 | | 11 | 7 3/8 | 1 3/4 | 17.00 | | 16 1/4 | 10 3/4 |
| 4 5/8 | 6.80 | | 11 1/8 | 7 3/8 | 1 3/4 | 17.25 | | 16 1/4 | 10 3/4 |
| 4 7/8 | 6.80 | | 11 1/8 | 7 3/8 | 1 3/4 | 17.25 | | 16 1/4 | 10 3/4 |
| 5 | 7.10 | | 11 1/4 | 7 3/8 | 1 3/4 | 17.50 | | 16 1/2 | 11 |
| 5 1/16 | 7.10 | | 11 1/4 | 7 3/8 | 1 3/4 | 17.50 | | 16 1/2 | 11 |
| 5 1/8 | 7.45 | | 11 1/2 | 7 3/8 | 1 3/4 | 17.85 | | 16 1/2 | 11 |
| 5 1/4 | 7.45 | | 11 1/2 | 7 3/8 | 1 3/4 | 17.85 | | 16 1/2 | 11 |
| 5 1/2 | 7.80 | | 11 3/4 | 7 3/8 | 1 3/4 | 18.20 | | 16 1/2 | 11 |
| 5 3/4 | 7.80 | | 11 3/4 | 7 3/8 | 1 3/4 | 18.20 | | 16 1/2 | 11 |
| 5 5/8 | 8.00 | | 11 3/4 | 8 | 1 3/4 | 18.60 | | 16 1/2 | 11 |
| 5 7/8 | 8.00 | | 11 3/4 | 8 | 1 3/4 | 18.60 | | 16 1/2 | 11 |
| 6 | 8.20 | | 12 | 8 1/8 | 1 3/4 | 19.00 | | 16 1/2 | 11 |

*These drills 1 1/8 and smaller are furnished with one oil hole only. They can be furnished with two if ordered, but at customer's risk.

These drills have holes through the solid metal and have great advantages over any other drill devised for conveying lubricants as well as air to the point. When drilling cast iron, air is sometimes used for blowing out the chips and keeping the drill cool.

MORSE EXTRA LONG STRAIGHT SHANK



No. 480—Carbon Steel

No. 1480—High Speed Steel

| Diam. In. | Each | | | High Speed Steel | Twist, Inches | | |
|--------------|--------------|--------------|--------------|------------------------|-----------------------|-------------------------|---------------------|
| | Carbon Steel | Carbon Steel | Carbon Steel | | Lgth. 8 1/2 In. | Length 10 1/2 In. | Length 13 In. |
| 1/16 | \$4.60 | \$5.30 | \$5.90 | | 5 1/2 | 7 | 9 1/4 |
| 1/8 | 4.60 | 5.30 | 6.00 | | 5 1/4 | 7 | 9 1/4 |
| 3/16 | 4.70 | 5.40 | 6.00 | | 5 1/4 | 7 | 9 1/4 |
| 1/4 | 4.70 | 5.40 | 6.10 | | 5 1/4 | 7 | 9 1/4 |
| 5/16 | 4.70 | 5.40 | 6.10 | | 5 1/4 | 7 | 9 1/4 |
| 3/8 | 4.70 | 5.40 | 6.20 | | 5 1/4 | 7 | 9 1/4 |
| 7/16 | 4.80 | 5.40 | 6.20 | | 5 1/4 | 7 | 9 1/4 |
| 1/2 | 4.80 | 5.40 | 6.30 | | 5 1/4 | 7 | 9 1/4 |
| 5/8 | 4.90 | 5.50 | 6.40 | | 5 1/4 | 7 | 9 1/4 |
| 3/4 | 5.00 | 5.60 | 6.50 | | 5 1/4 | 7 | 9 1/4 |
| 7/8 | 5.00 | 5.80 | 6.60 | | 5 1/4 | 7 | 9 1/4 |
| 1 | 5.10 | 5.90 | 6.80 | | 5 1/4 | 7 | 9 1/4 |
| 1 1/16 | 5.20 | 6.00 | 6.90 | | 5 1/4 | 7 | 9 1/4 |
| 1 1/8 | 5.30 | 6.10 | 7.00 | | 5 1/4 | 7 | 9 1/4 |
| 1 1/4 | 5.40 | 6.20 | 7.10 | | 5 1/4 | 7 | 9 1/4 |
| 1 1/2 | 5.50 | 6.30 | 7.20 | | 5 1/4 | 7 | 9 1/4 |
| 1 3/4 | 5.60 | 6.50 | 7.40 | | 5 | 6 3/4 | 9 |
| 1 5/8 | 5.80 | 6.80 | 7.70 | | 5 | 6 3/4 | 9 |
| 1 7/8 | 6.00 | 7.00 | 7.90 | | 5 | 6 3/4 | 9 |
| 2 | 6.10 | 7.20 | 8.10 | | 5 | 6 3/4 | 9 |
| 2 1/16 | 6.30 | 7.40 | 8.30 | | 5 | 6 3/4 | 9 |
| 2 1/8 | 6.50 | 7.60 | 8.60 | | 5 | 6 3/4 | 9 |
| 2 1/4 | 6.70 | 7.80 | 8.80 | | 5 | 6 3/4 | 9 |
| 2 1/2 | 6.80 | 7.90 | 9.00 | | 5 | 6 3/4 | 9 |
| 2 3/4 | 7.10 | 8.30 | 9.30 | | 5 | 6 3/4 | 9 |
| 2 5/8 | 7.40 | 8.60 | 9.60 | | 5 | 6 3/4 | 9 |
| 2 7/8 | 7.70 | 9.00 | 10.00 | | 5 | 6 3/4 | 9 |
| 3 | 8.00 | 9.30 | 10.30 | | 5 | 6 3/4 | 9 |
| 3 1/16 | 8.30 | 9.60 | 10.70 | | 5 | 6 3/4 | 9 |
| 3 1/8 | 8.60 | 9.90 | 11.20 | | 5 | 6 3/4 | 9 |
| 3 1/4 | 8.90 | 10.30 | 11.50 | | 5 | 6 3/4 | 9 |
| 3 1/2 | 9.20 | 10.50 | 11.90 | | 5 | 6 3/4 | 9 |
| 3 3/4 | 9.40 | 10.70 | 12.00 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 3 5/8 | 9.60 | 10.90 | 12.10 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 3 7/8 | 9.80 | 11.00 | 12.20 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 4 | 10.00 | 11.20 | 12.40 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 4 1/16 | 10.20 | 11.40 | 12.50 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 4 1/8 | 10.30 | 11.50 | 12.70 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 4 1/4 | 10.40 | 11.60 | 12.90 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 4 1/2 | 10.50 | 11.80 | 13.00 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 4 3/4 | 10.70 | 12.00 | 13.20 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 4 5/8 | 10.90 | 12.20 | 13.40 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 4 7/8 | 11.00 | 12.40 | 13.60 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 5 | 11.20 | 12.50 | 13.70 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 5 1/16 | 11.40 | 12.70 | 14.00 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 5 1/8 | 11.60 | 12.90 | 14.20 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 5 1/4 | 11.90 | 13.10 | 14.40 | | 4 3/4 | 6 1/2 | 8 3/4 |
| 5 1/2 | 12.10 | 13.30 | 14.60 | | 4 3/4 | 6 1/2 | 8 3/4 |

Drills 1 1/8 to 2 inches diameter, 8 1/2 inches long, have shanks 1 1/2 inches diameter, 3 inches long.

Drills 1 1/8 to 2 inches diameter, 10 1/2 inches long, have shanks 1 1/2 inches diameter, 3 1/4 inches long.

Drills 1 1/8 to 2 inches diameter, 13 inches long, have shanks 1 1/2 inches diameter, 3 1/2 inches long.



SHELL DRILLS

MORSE

15 Degree Angle Spiral, with Taper Holes

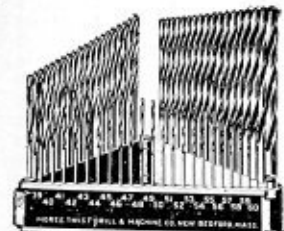
Shell Drills $1\frac{1}{8}$ in. to and including $3\frac{1}{2}$ in. have four flutes, $3\frac{1}{8}$ in. to and including 5 in. have six flutes.

Shell Drills take the same arbors as regular Shell Reamers. These arbors are illustrated on page 18.

No. 460—Carbon Steel

No. 1460—High Speed Steel

| Diam., Inch. | Each | | Length, Inches | Hole, Inches | Diam., Inch. | Each | | Length, Inches | Hole, Inches | Diam., Inch. | Each | | Length, Inches | Hole, Inches |
|-----------------|-----------------|------------------------|-------------------|-----------------|-----------------|-----------------|------------------------|-------------------|-----------------|-----------------|-----------------|------------------------|-------------------|-----------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $1\frac{1}{8}$ | \$5.10 | \$9.75 | $3\frac{1}{2}$ | 1 | $2\frac{1}{8}$ | \$10.60 | \$23.00 | 4 | $1\frac{1}{2}$ | $3\frac{5}{8}$ | \$17.80 | \$53.50 | 5 | 2 |
| $1\frac{3}{8}$ | 5.40 | 10.50 | $3\frac{1}{2}$ | 1 | $2\frac{3}{8}$ | 11.00 | 24.25 | 4 | $1\frac{1}{2}$ | $3\frac{7}{8}$ | 18.40 | 56.50 | 5 | 2 |
| $1\frac{1}{2}$ | 5.70 | 11.25 | $3\frac{1}{2}$ | 1 | $2\frac{1}{2}$ | 11.40 | 25.50 | 4 | $1\frac{1}{2}$ | $3\frac{3}{4}$ | 19.00 | 59.50 | 5 | 2 |
| $1\frac{7}{8}$ | 6.00 | 12.00 | $3\frac{1}{2}$ | 1 | $2\frac{7}{8}$ | 11.80 | 27.00 | 4 | $1\frac{1}{2}$ | $3\frac{1}{2}$ | 19.60 | 62.75 | 5 | 2 |
| $1\frac{1}{4}$ | 6.30 | 12.75 | $3\frac{1}{2}$ | 1 | $2\frac{1}{4}$ | 12.20 | 28.50 | 4 | $1\frac{1}{2}$ | $3\frac{1}{8}$ | 20.20 | 66.00 | 5 | 2 |
| 2 | 6.60 | 13.50 | $3\frac{1}{2}$ | 1 | 3 | 12.60 | 30.00 | 4 | $1\frac{1}{2}$ | $3\frac{1}{4}$ | 20.80 | 69.25 | 5 | 2 |
| $2\frac{1}{8}$ | 6.95 | 14.25 | $3\frac{3}{4}$ | $1\frac{1}{4}$ | $3\frac{1}{8}$ | 13.10 | 31.50 | $4\frac{1}{2}$ | $1\frac{3}{4}$ | 4 | 21.40 | 72.50 | 5 | 2 |
| $2\frac{1}{4}$ | 7.30 | 15.00 | $3\frac{3}{4}$ | $1\frac{1}{4}$ | $3\frac{1}{4}$ | 13.60 | 33.25 | $4\frac{1}{2}$ | $1\frac{3}{4}$ | $4\frac{1}{8}$ | 22.90 | 79.00 | $5\frac{1}{2}$ | $2\frac{1}{4}$ |
| $2\frac{3}{8}$ | 7.65 | 15.75 | $3\frac{3}{4}$ | $1\frac{1}{4}$ | $3\frac{3}{8}$ | 14.10 | 35.25 | $4\frac{1}{2}$ | $1\frac{3}{4}$ | $4\frac{1}{4}$ | 24.40 | 85.50 | $5\frac{1}{2}$ | $2\frac{1}{4}$ |
| $2\frac{1}{2}$ | 8.00 | 16.50 | $3\frac{3}{4}$ | $1\frac{1}{4}$ | $3\frac{1}{2}$ | 14.60 | 37.50 | $4\frac{1}{2}$ | $1\frac{3}{4}$ | $4\frac{3}{8}$ | 25.90 | 92.00 | $5\frac{1}{2}$ | $2\frac{1}{4}$ |
| $2\frac{7}{8}$ | 8.35 | 17.25 | $3\frac{3}{4}$ | $1\frac{1}{4}$ | $3\frac{5}{8}$ | 15.10 | 40.00 | $4\frac{1}{2}$ | $1\frac{3}{4}$ | $4\frac{1}{2}$ | 27.40 | 98.50 | $5\frac{1}{2}$ | $2\frac{1}{4}$ |
| $2\frac{3}{4}$ | 8.70 | 18.00 | $3\frac{3}{4}$ | $1\frac{1}{4}$ | $3\frac{3}{4}$ | 15.60 | 42.50 | $4\frac{1}{2}$ | $1\frac{3}{4}$ | $4\frac{3}{4}$ | 29.30 | 105.00 | 6 | $2\frac{1}{2}$ |
| $2\frac{1}{2}$ | 9.05 | 18.75 | $3\frac{3}{4}$ | $1\frac{1}{4}$ | $3\frac{7}{8}$ | 16.10 | 45.25 | $4\frac{1}{2}$ | $1\frac{3}{4}$ | $4\frac{7}{8}$ | 31.20 | 111.50 | 6 | $2\frac{1}{2}$ |
| $2\frac{1}{2}$ | 9.40 | 19.50 | $3\frac{3}{4}$ | $1\frac{1}{4}$ | $3\frac{1}{2}$ | 16.60 | 48.00 | $4\frac{1}{2}$ | $1\frac{3}{4}$ | $4\frac{7}{8}$ | 33.10 | 118.00 | 6 | $2\frac{1}{2}$ |
| $2\frac{3}{4}$ | 9.80 | 20.50 | 4 | $1\frac{1}{2}$ | $3\frac{1}{2}$ | 17.20 | 50.75 | 5 | 2 | 5 | 35.00 | 125.00 | 6 | $2\frac{1}{2}$ |
| $2\frac{3}{4}$ | 10.20 | 21.75 | 4 | $1\frac{1}{2}$ | | | | | | | | | | |



CARBON STEEL DRILLS IN SETS

MORSE PORTABLE SETS

In Folding Metal Case

These cases are made of metal, nicely finished and are provided with holes for each size of drill, with sizes plainly marked so that there is no misplacing of drills and each size is available instantly.

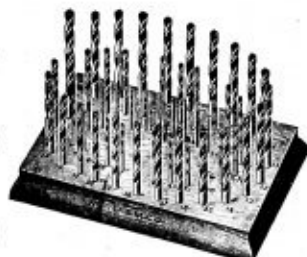
Per Set

- No. 5B Set—Contains All Sizes No. 330 Jobbers' Drills $\frac{1}{16}$ to $\frac{1}{2}$ in. by 64ths. \$16.00
- No. 7B Set—Contains All Sizes No. 340 Wire Gauge Drills 1 to 60, Also No. 330 Jobbers' Drills $\frac{1}{4}$ to $\frac{3}{8}$ in. by 32nds. 16.75
- No. 8B Set—Contains All Sizes No. 340 Wire Gauge Drills 1 to 60. 14.35
- No. 15B Set—Contains All Sizes No. 332 Letter Drills A to Z. 14.50

In Hardwood Blocks

Per Set

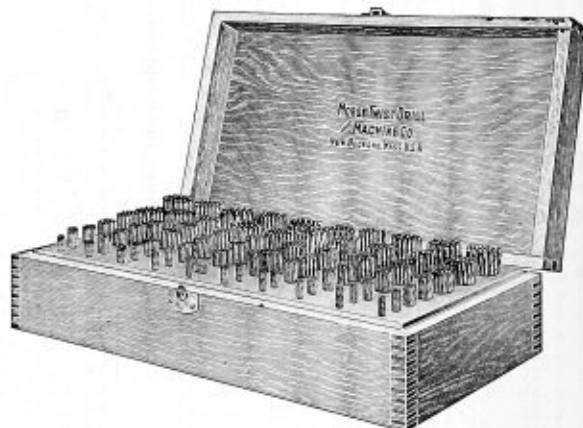
- No. 5 Set—Contains All Sizes No. 330 Jobbers' Drills $\frac{1}{16}$ to $\frac{1}{2}$ in. by 64ths. \$15.00
- No. 6 Set—Contains All Sizes No. 330 Jobbers' Drills $\frac{1}{16}$ to $\frac{1}{2}$ in. by 32nds. 9.50



- No. 7 Set—Contains All Sizes No. 340 Wire Gauge Drills 1 to 60, Also No. 330 Jobbers' Drills $\frac{1}{4}$ to $\frac{3}{8}$ in. by 32nds. \$15.75
- No. 8 Set—All Sizes No. 340 Wire Gauge Drills 1 to 60. 13.35
- No. 9 Set—Alternate Sizes No. 340 Wire Gauge Drills 1 to 59. 8.50
- No. 15 Set—All Sizes No. 332 Letter Drills A to Z. 13.50
- No. 17 Set—All Sizes No. 340 Wire Gauge Drills 1 to 80. 16.50
- Extra Blocks Each, 2.50

Note—Above Drill Sets can be furnished in High Speed Steel if so desired. Price on request.

MORSE STOCK SETS



For Factory, Storeroom and Dealers Use

The case is strongly made of oak; outside dimensions, closed, are: length 19 in., width $10\frac{1}{4}$ in., height 5 in. The drills stand on end in holes of graduated sizes, 24 to each hole, 10 holes to a row and 7 rows of holes. This makes easy the selection of any size or quantity of drills.

- No. 35 Set—Consists of 24 Straight Shank Wire Drills, Style 340, of Each Size from No. 1 to No. 70 Inclusive, Shipping Weight 32 Lbs. \$280.00
- No. 36 Set—Consists of 24 Straight Shank Jobbers' Drills, Style 330, of Each Size $\frac{1}{16}$ to $\frac{1}{2}$ in. and 12 of Each Size $\frac{3}{8}$ to $\frac{1}{2}$ in. Inclusive. The Case is of Oak, Similar in Style to Above, Outside Dimensions: Length 19 in., Width $10\frac{1}{4}$ in., Height 7 in., Shipping Weight 49 Lbs. 197.50

DRILLS IN SETS

MORSE RADIO SETS



Practical Assortment for Radio Work

These sets contain the most practical assortments of straight shank drills, conveniently arranged with each size plainly marked for ready reference, packed in a durable container. These sizes will fit any ordinary hand drill chuck.

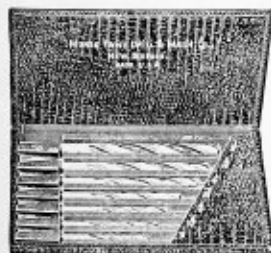
- | | Per Set |
|--|---------|
| No. 40 Set—Contains One Each No. 330 Jobbers' Straight Shank Drills Each $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ in. | \$1.60 |
| No. 1 Set—Contains One Each No. 330 Jobbers' Straight Shank Drills Each $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ and $\frac{7}{16}$ in. | 2.50 |
| No. 2 Set—Contains One Each No. 340 Wire Gauge Drill No. 10, 16, 20, 29, 36 and 45 Which Are the Proper Size Tap Drills for Nos. 4 to 14 Machine Screw Taps | 1.35 |

MORSE HANDY RADIO SETS



With Taps and Drills for Radio Work

- | | Per Set |
|---|---------|
| No. 3 Set—Contains One Each 4-26, 6-32, 8-32, 10-32, 12-24, 14-20 Machine Screw Taps and One Each No. 10, 16, 20, 29, 36 and 45 Wire Gauge Drills. | \$2.00 |



MORSE BIT STOCK DRILL SETS

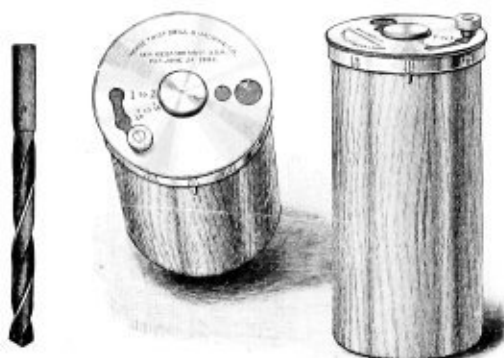
In Flat Leatherette Cases

This Set is furnished in a leatherette case that is both neat and convenient for carrying. This case is $6\frac{3}{4}$ in. long, $3\frac{1}{2}$ in. wide, and $\frac{7}{8}$ in. thick. The sizes are plainly marked as shown in the illustration.

- | | Per Set |
|---|---------|
| No. 25 Set—Contains One Each No. 390 Bit Stock Drill $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ in. | \$4.35 |

MORSE STRAIGHT SHANK

In Indexed Cases



Drills are contained in holes arranged in concentric circles in the block. The cap is stamped with size of each drill. The swinging cover is moved by small knob so that its holes will register with the holes in the outer cover on cap. The cap is turned to bring any size in line with the index mark so that by inverting the case, size drill selected will drop out.

- | | Per Set |
|---|---------|
| No. 5A—With No. 330 Jobbers' Straight Shank Drills $\frac{1}{16}$ to $\frac{1}{2}$ in. by 64ths. | \$16.00 |
| No. 6A—With No. 330 Jobbers' Straight Shank Drills $\frac{1}{16}$ to $\frac{1}{2}$ in. by 32nds. | 10.50 |
| No. 7A—With No. 340 Wire Gauge Straight Shank Drills Size 1 to 20 and No. 330 Jobbers' Straight Shank Drills $\frac{1}{16}$ to $\frac{1}{2}$ in. by 32nds. | 16.75 |
| No. 8A—With No. 340 Wire Gauge Straight Shank Drills Sizes 1 to 60. | 14.35 |
| No. 9A—With No. 340 Wire Gauge Straight Shank Drills 1 to 59 Alternate Sizes. | 9.50 |

MORSE BIT STOCK DRILL SETS

In Round Wood Box

Complete with cover, nicely finished, size of each drill stamped on outside of case.

- | | Per Set |
|--|---------|
| No. 14 Set—Contains One Each No. 390 Bit Stock Drills, Each $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ in. | \$4.25 |



REAMERS

MORSE STRAIGHT SHANK JOBBERS

No. 601—Carbon Steel



No. 1601—High Speed Steel

| Diam., Inch. | Each | | Length, Inches | Length Flute, Inches | Diam., Inch. | Each | | Length, Inches | Length Flute, Inches | Diam., Inch. | Each | | Length, Inches | Length Flute, Inches |
|-----------------|-----------------|------------------------|-------------------|----------------------------|-----------------|-----------------|------------------------|-------------------|----------------------------|-----------------|-----------------|------------------------|-------------------|----------------------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| 1/8 | \$1.00 | | 3 | 1 1/2 | 1/8 | \$2.40 | \$6.75 | 7 3/4 | 3 1/2 | 1/8 | \$4.90 | \$15.75 | 12 1/2 | 6 1/2 |
| 5/16 | 1.20 | | 3 1/4 | 1 5/8 | 5/16 | 2.40 | 6.75 | 7 3/4 | 3 3/8 | 5/16 | 4.90 | 15.75 | 12 1/4 | 6 1/4 |
| 3/8 | 1.20 | | 3 1/2 | 1 3/4 | 3/8 | 2.60 | 7.25 | 8 1/8 | 4 1/8 | 3/8 | 5.20 | 17.25 | 12 3/8 | 6 3/8 |
| 7/16 | 1.40 | | 3 3/4 | 1 7/8 | 7/16 | 2.60 | 7.25 | 8 3/8 | 4 3/8 | 7/16 | 5.20 | 17.25 | 12 1/2 | 6 1/2 |
| 1/2 | 1.40 | \$3.50 | 4 | 2 | 1/2 | 2.80 | 7.75 | 8 3/4 | 4 3/4 | 1/2 | 5.60 | 18.75 | 12 1/2 | 6 1/2 |
| 9/16 | 1.50 | 3.75 | 4 1/4 | 2 1/4 | 9/16 | 2.80 | 7.75 | 9 1/8 | 4 5/8 | 9/16 | 5.60 | 18.75 | 12 3/8 | 6 3/8 |
| 5/8 | 1.50 | 3.75 | 4 1/2 | 2 1/2 | 5/8 | 3.10 | 8.50 | 9 3/8 | 4 7/8 | 5/8 | 6.00 | 20.50 | 12 3/8 | 6 3/8 |
| 11/16 | 1.60 | 4.25 | 4 3/4 | 2 3/8 | 11/16 | 3.10 | 8.50 | 9 3/4 | 4 7/8 | 11/16 | 6.00 | 20.50 | 12 3/8 | 6 3/8 |
| 3/4 | 1.60 | 4.25 | 5 | 2 1/2 | 3/4 | 3.40 | 9.50 | 10 | 5 | 3/4 | 6.40 | 22.25 | 12 3/8 | 6 3/8 |
| 7/8 | 1.75 | 4.75 | 5 1/4 | 2 5/8 | 7/8 | 3.40 | 9.50 | 10 1/4 | 5 1/4 | 7/8 | 6.40 | 22.25 | 13 | 6 1/2 |
| 1 1/8 | 1.75 | 4.75 | 5 1/2 | 2 3/4 | 1 1/8 | 3.70 | 10.50 | 10 5/8 | 5 1/2 | 1 1/8 | 6.80 | | 13 | 6 1/2 |
| 1 1/4 | 1.90 | 5.25 | 5 3/4 | 2 7/8 | 1 1/4 | 3.70 | 10.50 | 10 3/4 | 5 1/2 | 1 1/4 | 7.20 | | 13 | 6 1/2 |
| 1 1/2 | 1.90 | 5.25 | 6 | 3 | 1 1/2 | 4.00 | 11.50 | 11 1/8 | 5 5/8 | 1 1/2 | 7.60 | | 13 1/2 | 6 3/4 |
| 1 3/4 | 2.00 | 5.75 | 6 1/4 | 3 1/8 | 1 3/4 | 4.00 | 11.50 | 11 1/4 | 5 5/8 | 1 3/4 | 8.00 | | 13 1/2 | 6 3/4 |
| 1 5/8 | 2.00 | 5.75 | 6 1/2 | 3 1/4 | 1 5/8 | 4.30 | 12.75 | 11 1/2 | 5 3/4 | 1 5/8 | 8.40 | | 13 1/2 | 6 3/4 |
| 1 7/8 | 2.20 | 6.25 | 6 3/4 | 3 3/8 | 1 7/8 | 4.30 | 12.75 | 11 5/8 | 5 3/4 | 1 7/8 | 8.80 | | 14 | 7 |
| 2 | 2.20 | 6.25 | 7 | 3 1/2 | 2 | 4.60 | 14.25 | 11 3/4 | 5 1/2 | 2 | 9.20 | | 14 | 7 |
| | | | | | | 4.60 | 14.25 | 12 | 6 | | 9.60 | | 14 | 7 |

Reamers of any style, size or length, made to order at special prices.

Reamers for Brass or Bronze require special clearance and are so furnished on request.

64ths sizes, 1/8 to 1 in. inclusive, of carbon steel furnished at price of next larger size.

CARBON STEEL JOBBERS REAMERS IN SETS

| Nos. | 601A | 601B | 601C | 601D |
|-----------------------------|------------------|----------------------|----------------------|------------------|
| Range of Sizes, Inches..... | 1/4 to 1 x 16ths | 1/4 to 1 1/4 x 16ths | 1/4 to 1 1/2 x 16ths | 1/4 to 2 x 16ths |
| Per Set | \$33.00 | 53.00 | 78.50 | 150.00 |
| Nos. | 601E | 601F | 601G | |
| Range of Sizes, Inches..... | 1/4 to 1 x 32nds | 1/4 to 1 1/4 x 32nds | 1/4 to 1 1/2 x 32nds | |
| Per Set | 64.00 | 102.50 | 153.00 | |

MORSE TAPER SHANK JOBBERS

No. 617—Carbon Steel



No. 1617—High Speed Steel

| Diam., Inch. | Each | | Length, Inches | Length Flute, Inches | Morse Taper Shank | Diam., Inch. | Each | | Length, Inches | Length Flute, Inches | Morse Taper Shank | Diam., Inch. | Each | | Length, Inches | Length Flute, Inches | Morse Taper Shank |
|-----------------|-----------------|------------------------|-------------------|----------------------------|-------------------------|-----------------|-----------------|------------------------|-------------------|----------------------------|-------------------------|-----------------|-----------------|------------------------|-------------------|----------------------------|-------------------------|
| | Carbon Steel | High Speed Steel | | | | | Carbon Steel | High Speed Steel | | | | | Carbon Steel | High Speed Steel | | | |
| 1/4 | \$1.70 | \$4.00 | 5 1/2 | 2 | No. 1 | 1/4 | \$2.30 | \$5.75 | 6 1/4 | 2 7/8 | No. 1 | 1/4 | \$3.70 | \$9.50 | 8 1/2 | 4 1/2 | No. 2 |
| 5/16 | 1.80 | 4.25 | 5 1/4 | 2 1/8 | | 5/16 | 2.30 | 5.75 | 6 1/4 | 2 7/8 | | 5/16 | 3.70 | 9.50 | 9 1/4 | 4 3/8 | |
| 3/8 | 1.80 | 4.25 | 5 1/2 | 2 1/8 | | 3/8 | 2.30 | 5.75 | 6 1/2 | 3 | | 3/8 | 4.10 | 10.50 | 9 3/4 | 5 | |
| 7/16 | 1.80 | 4.25 | 5 1/2 | 2 1/4 | | 7/16 | 2.30 | 5.75 | 6 1/2 | 3 | | 7/16 | 4.10 | 10.50 | 10 1/8 | 5 1/8 | |
| 1/2 | 1.80 | 4.25 | 5 1/2 | 2 1/4 | | 1/2 | 2.40 | 6.25 | 6 3/4 | 3 1/8 | | 1/2 | 4.45 | 11.50 | 10 3/8 | 5 1/2 | |
| 9/16 | 1.90 | 4.75 | 5 5/8 | 2 3/8 | | 9/16 | 2.40 | 6.25 | 6 3/4 | 3 1/4 | | 9/16 | 4.45 | 11.50 | 10 3/8 | 5 1/2 | |
| 5/8 | 1.90 | 4.75 | 5 5/8 | 2 3/8 | | 5/8 | 2.65 | 6.75 | 6 7/8 | 3 3/8 | | 5/8 | 4.80 | 12.50 | 10 1/2 | 5 5/8 | |
| 11/16 | 1.90 | 4.75 | 5 1/2 | 2 1/2 | | 11/16 | 2.65 | 6.75 | 7 1/8 | 3 1/2 | | 11/16 | 5.15 | 13.75 | 11 1/8 | 5 1/2 | |
| 3/4 | 1.90 | 4.75 | 5 1/2 | 2 1/2 | | 3/4 | 2.90 | 7.25 | 7 3/4 | 3 1/2 | | 3/4 | 5.50 | 15.25 | 11 1/8 | 6 | |
| 7/8 | 2.15 | 5.25 | 5 1/2 | 2 3/8 | | 7/8 | 2.90 | 7.25 | 8 | 3 3/8 | | 7/8 | 5.90 | 16.75 | 12 1/2 | 6 1/2 | |
| 1 1/8 | 2.15 | 5.25 | 5 1/2 | 2 3/8 | | 1 1/8 | 3.10 | 7.75 | 8 3/8 | 4 1/8 | | 1 1/8 | 6.25 | 18.25 | 12 1/2 | 6 1/2 | |
| 1 1/4 | 2.15 | 5.25 | 6 1/4 | 2 3/4 | | 1 1/4 | 3.10 | 7.75 | 8 3/8 | 4 1/8 | | 1 1/4 | 6.70 | 19.75 | 12 1/2 | 6 1/2 | |
| 1 1/2 | 2.15 | 5.25 | 6 1/4 | 2 3/4 | | 1 1/2 | 3.35 | 8.50 | 8 3/4 | 4 3/8 | | 1 1/2 | 7.20 | 21.50 | 13 | 6 1/2 | |
| | | | | | | | 3.35 | 8.50 | 8 3/4 | 4 3/8 | | 1 1/2 | 7.70 | 23.25 | 13 1/8 | 6 1/2 | |

MORSE TAPER SOCKET



No. 636—Finishing



No. 637—Roughing

| No. of Taper | Each | | Length, Inches | Length Flute, Inches | Size of Finishing Reamer | | No. of Taper | Each | | Length, Inches | Length Flute, Inches | Size of Finishing Reamer | |
|-----------------|---------------------|--------------------|-------------------|----------------------------|-----------------------------|---------|-----------------|---------------------|--------------------|-------------------|----------------------------|-----------------------------|---------|
| | Finish's No. 636 | Rough's No. 637 | | | Lg. End | Sm. End | | Finish's No. 636 | Rough's No. 637 | | | Lg. End | Sm. End |
| 0 | \$1.60 | \$1.90 | 3 3/4 | 2 3/4 | .367 | .250 | 4 | \$4.20 | \$5.05 | 9 | 5 1/4 | 1.289 | 1.017 |
| 1 | 2.00 | 2.40 | 5 1/2 | 3 | .517 | .367 | 5 | 6.60 | 7.90 | 10 | 6 1/4 | 1.799 | 1.471 |
| 2 | 2.60 | 3.10 | 7 | 3 1/2 | .745 | .569 | 6 | 12.00 | 14.40 | 12 | 8 1/2 | 2.555 | 2.112 |
| 3 | 3.40 | 4.10 | 8 | 4 1/4 | .988 | .775 | | | | | | | |

Morse Taper Reamers larger than No. 1 can be made with oil holes, at special prices.

Reamers for Short Shanks made to order. Prices quoted on application.

REAMERS

MORSE STRAIGHT SHANK FLUTED CHUCKING

No. 655—Carbon Steel



No. 1655—High Speed Steel

| Diam., Inches | Each | | Length, Inches | Length Flutes, Inches | Diam., Inches | Each | | Length, Inches | Length Flutes, Inches | Diam., Inches | Each | | Length, Inches | Length Flutes, Inches |
|------------------|-----------------|------------------------|-------------------|-----------------------------|------------------|-----------------|------------------------|-------------------|-----------------------------|------------------|-----------------|------------------------|-------------------|-----------------------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{8}$ | \$0.90 | \$2.00 | 3 $\frac{1}{2}$ | $\frac{7}{8}$ | $\frac{1}{8}$ | \$2.00 | \$5.25 | 8 | 2 | 1 | \$3.45 | \$10.00 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{3}{16}$ | 1.00 | 2.50 | 4 | 1 | $\frac{3}{16}$ | 2.25 | 5.75 | 8 | 2 | $\frac{1}{16}$ | 3.70 | 11.25 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{1}{4}$ | 1.00 | 2.50 | 4 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | $\frac{1}{4}$ | 2.25 | 5.75 | 9 | 2 $\frac{1}{4}$ | $\frac{1}{8}$ | 3.70 | 11.25 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{5}{16}$ | 1.20 | 3.00 | 5 | 1 $\frac{1}{4}$ | $\frac{5}{16}$ | 2.40 | 6.25 | 9 | 2 $\frac{1}{4}$ | $\frac{3}{16}$ | 3.90 | 12.50 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{3}{8}$ | 1.20 | 3.00 | 6 | 1 $\frac{1}{2}$ | $\frac{3}{8}$ | 2.40 | 6.25 | 9 | 2 $\frac{1}{4}$ | $\frac{1}{4}$ | 3.90 | 12.50 | 11 | 2 $\frac{3}{4}$ |
| $\frac{7}{16}$ | 1.30 | 3.25 | 6 | 1 $\frac{1}{2}$ | $\frac{7}{16}$ | 2.55 | 6.75 | 9 | 2 $\frac{1}{4}$ | $\frac{5}{16}$ | 4.15 | 13.75 | 11 | 2 $\frac{3}{4}$ |
| $\frac{1}{2}$ | 1.30 | 3.25 | 6 | 1 $\frac{1}{2}$ | $\frac{1}{2}$ | 2.55 | 6.75 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{3}{8}$ | 4.15 | 13.75 | 11 | 2 $\frac{3}{4}$ |
| $\frac{9}{16}$ | 1.45 | 3.75 | 6 | 1 $\frac{1}{2}$ | $\frac{9}{16}$ | 2.80 | 7.25 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{7}{16}$ | 4.35 | 15.25 | 11 | 2 $\frac{3}{4}$ |
| $\frac{5}{8}$ | 1.45 | 3.75 | 7 | 1 $\frac{3}{4}$ | $\frac{5}{8}$ | 2.80 | 7.25 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{1}{2}$ | 4.35 | 15.25 | 11 $\frac{1}{2}$ | 3 |
| $\frac{11}{16}$ | 1.60 | 4.25 | 7 | 1 $\frac{3}{4}$ | $\frac{11}{16}$ | 3.00 | 8.00 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{5}{8}$ | 4.60 | 17.00 | 11 $\frac{1}{2}$ | 3 |
| $\frac{3}{4}$ | 1.60 | 4.25 | 7 | 1 $\frac{3}{4}$ | $\frac{3}{4}$ | 3.00 | 8.00 | 10 | 2 $\frac{5}{8}$ | $\frac{3}{4}$ | 4.80 | 18.75 | 12 | 3 $\frac{1}{4}$ |
| $\frac{7}{8}$ | 1.80 | 4.75 | 7 | 1 $\frac{3}{4}$ | $\frac{7}{8}$ | 3.25 | 9.00 | 10 | 2 $\frac{5}{8}$ | $\frac{7}{8}$ | 5.05 | 20.50 | 12 | 3 $\frac{1}{4}$ |
| $\frac{15}{16}$ | 1.80 | 4.75 | 8 | 2 | $\frac{15}{16}$ | 3.25 | 9.00 | 10 | 2 $\frac{5}{8}$ | $\frac{15}{16}$ | 5.25 | 22.25 | 12 $\frac{1}{2}$ | 3 $\frac{1}{2}$ |
| $\frac{1}{16}$ | 2.00 | 5.25 | 8 | 2 | $\frac{1}{16}$ | 3.45 | 10.00 | 10 | 2 $\frac{5}{8}$ | $\frac{1}{16}$ | | | | |

MORSE TAPER SHANK FLUTED CHUCKING

No. 656—Carbon Steel



No. 1656—High Speed Steel

| Diam., Inches | Each | | Length, Inches | Length Flutes, Inches | Morse Taper Shank | Diam., Inches | Each | | Length, Inches | Length Flutes, Inches | Morse Taper Shank |
|------------------|-----------------|------------------------|-------------------|-----------------------------|-------------------------|------------------|-----------------|------------------------|-------------------|-----------------------------|-------------------------|
| | Carbon Steel | High Speed Steel | | | | | Carbon Steel | High Speed Steel | | | |
| $\frac{1}{4}$ | \$1.45 | \$3.50 | 6 | 1 $\frac{1}{2}$ | No. 1 | $\frac{1}{4}$ | \$3.60 | \$ 9.00 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | No. 2 |
| $\frac{3}{8}$ | 1.55 | 3.75 | 6 | 1 $\frac{1}{2}$ | | $\frac{3}{8}$ | 3.60 | 9.00 | 10 | 2 $\frac{5}{8}$ | |
| $\frac{1}{2}$ | 1.55 | 3.75 | 6 | 1 $\frac{1}{2}$ | | $\frac{1}{2}$ | 3.90 | 10.00 | 10 | 2 $\frac{5}{8}$ | |
| $\frac{5}{8}$ | 1.75 | 4.25 | 6 | 1 $\frac{1}{2}$ | | $\frac{5}{8}$ | 3.90 | 10.00 | 10 | 2 $\frac{5}{8}$ | |
| $\frac{3}{4}$ | 1.75 | 4.25 | 7 | 1 $\frac{3}{4}$ | | $\frac{3}{4}$ | 4.15 | 11.00 | 10 | 2 $\frac{5}{8}$ | |
| $\frac{7}{8}$ | 1.90 | 4.75 | 7 | 1 $\frac{3}{4}$ | | $\frac{7}{8}$ | 4.15 | 11.00 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ | |
| $\frac{15}{16}$ | 1.90 | 4.75 | 7 | 1 $\frac{3}{4}$ | | $\frac{15}{16}$ | 4.45 | 12.25 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ | |
| $\frac{1}{16}$ | 2.15 | 5.25 | 7 | 1 $\frac{3}{4}$ | | $\frac{1}{16}$ | 4.45 | 12.25 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ | |
| $\frac{1}{8}$ | 2.15 | 5.25 | 8 | 2 | | $\frac{1}{8}$ | 4.70 | 13.50 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ | |
| $\frac{3}{16}$ | 2.40 | 5.75 | 8 | 2 | | $\frac{3}{16}$ | 4.70 | 13.50 | 11 | 2 $\frac{3}{4}$ | |
| $\frac{1}{4}$ | 2.40 | 5.75 | 8 | 2 | No. 2 | $\frac{1}{4}$ | 5.00 | 14.75 | 11 | 2 $\frac{3}{4}$ | No. 4 |
| $\frac{5}{16}$ | 2.40 | 5.75 | 8 | 2 | | $\frac{5}{16}$ | 5.00 | 14.75 | 11 | 2 $\frac{3}{4}$ | |
| $\frac{3}{8}$ | 2.70 | 6.25 | 9 | 2 $\frac{1}{4}$ | | $\frac{3}{8}$ | 5.20 | 16.25 | 11 | 2 $\frac{3}{4}$ | |
| $\frac{1}{2}$ | 2.70 | 6.25 | 9 | 2 $\frac{1}{4}$ | | $\frac{1}{2}$ | 5.20 | 16.25 | 11 $\frac{1}{2}$ | 3 | |
| $\frac{5}{8}$ | 2.90 | 6.75 | 9 | 2 $\frac{1}{4}$ | | $\frac{5}{8}$ | 5.50 | 18.00 | 11 $\frac{1}{2}$ | 3 | |
| $\frac{3}{4}$ | 3.05 | 7.25 | 9 | 2 $\frac{1}{4}$ | | $\frac{3}{4}$ | 5.75 | 19.75 | 12 | 3 $\frac{1}{4}$ | |
| $\frac{7}{8}$ | 3.05 | 7.25 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | | $\frac{7}{8}$ | 6.05 | 21.50 | 12 | 3 $\frac{1}{4}$ | |
| $\frac{15}{16}$ | 3.35 | 8.00 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | | $\frac{15}{16}$ | 6.30 | 23.25 | 12 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | |
| $\frac{1}{16}$ | 3.35 | 8.00 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | | $\frac{1}{16}$ | | | | | |

MORSE STRAIGHT SHANK ROSE CHUCKING

No. 662—Carbon Steel



No. 1662—High Speed Steel

| Diam., Inches | Each | | Length, Inches | Length Flutes, Inches | Diam., Inches | Each | | Length, Inches | Length Flutes, Inches | Diam., Inches | Each | | Length, Inches | Length Flutes, Inches |
|------------------|-----------------|------------------------|-------------------|-----------------------------|------------------|-----------------|------------------------|-------------------|-----------------------------|------------------|-----------------|------------------------|-------------------|-----------------------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| $\frac{1}{8}$ | \$0.90 | \$2.00 | 3 $\frac{1}{2}$ | $\frac{7}{8}$ | $\frac{1}{8}$ | \$2.00 | \$5.25 | 8 | 2 | 1 | \$3.45 | \$10.00 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{3}{16}$ | 1.00 | 2.50 | 4 | 1 | $\frac{3}{16}$ | 2.25 | 5.75 | 8 | 2 | $\frac{1}{16}$ | 3.70 | 11.25 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{1}{4}$ | 1.00 | 2.50 | 4 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | $\frac{1}{4}$ | 2.25 | 5.75 | 9 | 2 $\frac{1}{4}$ | $\frac{1}{8}$ | 3.70 | 11.25 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{5}{16}$ | 1.20 | 3.00 | 5 | 1 $\frac{1}{4}$ | $\frac{5}{16}$ | 2.40 | 6.25 | 9 | 2 $\frac{1}{4}$ | $\frac{3}{16}$ | 3.90 | 12.50 | 10 $\frac{1}{2}$ | 2 $\frac{3}{4}$ |
| $\frac{3}{8}$ | 1.20 | 3.00 | 6 | 1 $\frac{1}{2}$ | $\frac{3}{8}$ | 2.40 | 6.25 | 9 | 2 $\frac{1}{4}$ | $\frac{1}{4}$ | 3.90 | 12.50 | 11 | 2 $\frac{3}{4}$ |
| $\frac{7}{16}$ | 1.30 | 3.25 | 6 | 1 $\frac{1}{2}$ | $\frac{7}{16}$ | 2.55 | 6.75 | 9 | 2 $\frac{1}{4}$ | $\frac{5}{16}$ | 4.15 | 13.75 | 11 | 2 $\frac{3}{4}$ |
| $\frac{1}{2}$ | 1.30 | 3.25 | 6 | 1 $\frac{1}{2}$ | $\frac{1}{2}$ | 2.55 | 6.75 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{3}{8}$ | 4.15 | 13.75 | 11 | 2 $\frac{3}{4}$ |
| $\frac{9}{16}$ | 1.45 | 3.75 | 6 | 1 $\frac{1}{2}$ | $\frac{9}{16}$ | 2.80 | 7.25 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{7}{16}$ | 4.35 | 15.25 | 11 | 2 $\frac{3}{4}$ |
| $\frac{5}{8}$ | 1.45 | 3.75 | 7 | 1 $\frac{3}{4}$ | $\frac{5}{8}$ | 2.80 | 7.25 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{1}{2}$ | 4.35 | 15.25 | 11 $\frac{1}{2}$ | 3 |
| $\frac{11}{16}$ | 1.60 | 4.25 | 7 | 1 $\frac{3}{4}$ | $\frac{11}{16}$ | 3.00 | 8.00 | 9 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | $\frac{5}{8}$ | 4.60 | 17.00 | 11 $\frac{1}{2}$ | 3 |
| $\frac{3}{4}$ | 1.60 | 4.25 | 7 | 1 $\frac{3}{4}$ | $\frac{3}{4}$ | 3.00 | 8.00 | 10 | 2 $\frac{5}{8}$ | $\frac{3}{4}$ | 4.80 | 18.75 | 12 | 3 $\frac{1}{4}$ |
| $\frac{7}{8}$ | 1.80 | 4.75 | 7 | 1 $\frac{3}{4}$ | $\frac{7}{8}$ | 3.25 | 9.00 | 10 | 2 $\frac{5}{8}$ | $\frac{7}{8}$ | 5.05 | 20.50 | 12 | 3 $\frac{1}{4}$ |
| $\frac{15}{16}$ | 1.80 | 4.75 | 8 | 2 | $\frac{15}{16}$ | 3.25 | 9.00 | 10 | 2 $\frac{5}{8}$ | $\frac{15}{16}$ | 5.25 | 22.25 | 12 $\frac{1}{2}$ | 3 $\frac{1}{2}$ |
| $\frac{1}{16}$ | 2.00 | 5.25 | 8 | 2 | $\frac{1}{16}$ | 3.45 | 10.00 | 10 | 2 $\frac{5}{8}$ | $\frac{1}{16}$ | | | | |

These Reamers have no radial clearance but are ground with a longitudinal clearance. Keep cutting points sharp. Reamers for Brass or Bronze require special clearance and are so furnished on request.

REAMERS

MORSE TAPER SHANK ROSE CHUCKING

No. 663—Carbon Steel



No. 1663—High Speed Steel

| Diam., Inch. | Each | | Length, Inches | Length, Flute, Inches | Morse Taper Shank | Diam., Inch. | Each | | Length, Inches | Length, Flute, Inches | Morse Taper Shank | Diam., Inch. | Each | | Length, Inches | Length, Flute, Inches | Morse Taper Shank |
|-----------------|-----------------|------------------------|-------------------|-----------------------------|-------------------------|-----------------|-----------------|------------------------|-------------------|-----------------------------|-------------------------|-----------------|-----------------|------------------------|-------------------|-----------------------------|-------------------------|
| | Carbon Steel | High Speed Steel | | | | | Carbon Steel | High Speed Steel | | | | | Carbon Steel | High Speed Steel | | | |
| 1/4 | \$1.45 | \$3.50 | 6 | 1 1/2 | No. 1 | 3/16 | \$2.90 | \$6.75 | 9 | 2 1/4 | No. 2 | 1 1/8 | \$4.45 | \$12.25 | 10 1/2 | 2 3/4 | No. 3 |
| 5/16 | 1.55 | 3.75 | 6 | 1 1/2 | | 1/4 | 2.90 | 6.75 | 9 | 2 1/4 | | 1 1/8 | 4.70 | 13.50 | 10 1/2 | 2 3/4 | |
| 3/8 | 1.55 | 3.75 | 6 | 1 1/2 | | 5/16 | 3.05 | 7.25 | 9 | 2 1/4 | | 1 1/8 | 4.70 | 13.50 | 11 | 2 3/4 | |
| 7/16 | 1.75 | 4.25 | 6 | 1 1/2 | | 3/8 | 3.05 | 7.25 | 9 1/2 | 2 1/2 | | 1 1/8 | 5.00 | 14.75 | 11 | 2 3/4 | |
| 1/2 | 1.75 | 4.25 | 7 | 1 3/4 | | 7/16 | 3.35 | 8.00 | 9 1/2 | 2 1/2 | | 1 1/8 | 5.00 | 14.75 | 11 | 2 3/4 | |
| 9/16 | 1.90 | 4.75 | 7 | 1 3/4 | | 1/2 | 3.35 | 8.00 | 9 1/2 | 2 1/2 | | 1 1/8 | 5.20 | 16.25 | 11 | 2 3/4 | |
| 5/8 | 1.90 | 4.75 | 7 | 1 3/4 | | 9/16 | 3.60 | 9.00 | 9 1/2 | 2 1/2 | | 1 1/8 | 5.20 | 16.25 | 11 1/2 | 3 | |
| 3/4 | 2.15 | 5.25 | 7 | 1 3/4 | | 5/8 | 3.60 | 9.00 | 10 | 2 3/4 | | 1 1/8 | 5.50 | 18.00 | 11 1/2 | 3 | |
| 7/8 | 2.15 | 5.25 | 8 | 2 | | 3/4 | 3.90 | 10.00 | 10 | 2 3/4 | | 1 1/8 | 5.50 | 18.00 | 11 1/2 | 3 | |
| 1 | 2.40 | 5.75 | 8 | 2 | | 7/8 | 3.90 | 10.00 | 10 | 2 3/4 | | 1 1/8 | 5.75 | 19.75 | 12 | 3 1/4 | |
| 1 1/16 | 2.40 | 5.75 | 8 | 2 | No. 2 | 1 | 4.15 | 11.00 | 10 | 2 3/4 | No. 3 | 1 1/8 | 6.05 | 21.50 | 12 | 3 1/4 | No. 4 |
| 1 1/8 | 2.70 | 6.25 | 8 | 2 | | 1 1/16 | 4.15 | 11.00 | 10 1/2 | 2 3/4 | | 1 1/8 | 6.30 | 23.25 | 12 1/2 | 3 1/4 | |
| 1 1/4 | 2.70 | 6.25 | 9 | 2 1/4 | | 1 1/8 | 4.45 | 12.25 | 10 1/2 | 2 3/4 | | 1 1/8 | 6.30 | 23.25 | 12 1/2 | 3 1/4 | |

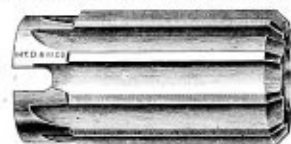
These Reamers have no radial clearance but are ground with a longitudinal clearance. Keep cutting points sharp.



MORSE SHELL

No. 625—Carbon Steel

No. 1625—High Speed Steel



MORSE ROSE SHELL

No. 626—Carbon Steel

No. 1626—High Speed Steel

| Dia., In. | Each | | Length, Inches | Hole, Inches | Dia., In. | Each | | Length, Inches | Hole, Inches | Dia., In. | Each | | Length, Inches | Hole, Inches | Dia., In. | Each | | Length, Inches | Hole, Inches |
|--------------|-----------------|------------------------|-------------------|-----------------|--------------|-----------------|------------------------|-------------------|-----------------|--------------|-----------------|------------------------|-------------------|-----------------|--------------|-----------------|------------------------|-------------------|-----------------|
| | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | |
| 1/2 | \$1.70 | \$3.25 | 2 | 1/4 | 1 1/2 | \$3.10 | \$5.50 | 2 3/4 | 5/8 | 2 1/8 | \$6.95 | \$14.25 | 3 3/4 | 1 1/4 | 3 1/8 | \$15.10 | \$40.00 | 4 1/2 | 1 3/4 |
| 5/8 | 1.80 | 3.40 | 2 | 1/4 | 1 1/2 | 3.10 | 5.50 | 2 3/4 | 5/8 | 2 1/8 | 7.30 | 15.00 | 3 3/4 | 1 1/4 | 3 1/8 | 15.60 | 42.50 | 4 1/2 | 1 3/4 |
| 3/4 | 1.80 | 3.40 | 2 | 1/4 | 1 1/2 | 3.30 | 5.75 | 2 3/4 | 5/8 | 2 1/8 | 7.65 | 15.75 | 3 3/4 | 1 1/4 | 3 1/8 | 16.10 | 45.25 | 4 1/2 | 1 3/4 |
| 7/8 | 1.90 | 3.55 | 2 | 1/4 | 1 1/2 | 3.30 | 5.75 | 2 3/4 | 5/8 | 2 1/8 | 8.00 | 16.50 | 3 3/4 | 1 1/4 | 3 1/8 | 16.60 | 48.00 | 4 1/2 | 1 3/4 |
| 1 | 1.90 | 3.55 | 2 | 1/4 | 1 1/2 | 3.55 | 6.00 | 2 3/4 | 5/8 | 2 1/8 | 8.35 | 17.25 | 3 3/4 | 1 1/4 | 3 1/8 | 17.20 | 50.75 | 5 | 2 |
| 1 1/16 | 2.00 | 3.70 | 2 1/4 | 3/8 | 1 1/2 | 3.55 | 6.00 | 3 | 5/8 | 2 3/8 | 8.70 | 18.00 | 3 3/4 | 1 1/4 | 3 1/8 | 17.80 | 53.50 | 5 | 2 |
| 1 1/8 | 2.00 | 3.70 | 2 1/4 | 3/8 | 1 1/2 | 3.80 | 6.50 | 3 | 5/8 | 2 3/8 | 9.05 | 18.75 | 3 3/4 | 1 1/4 | 3 1/8 | 18.40 | 56.50 | 5 | 2 |
| 1 1/4 | 2.10 | 3.85 | 2 1/2 | 3/8 | 1 1/2 | 3.80 | 6.50 | 3 | 5/8 | 2 3/8 | 9.40 | 19.50 | 3 3/4 | 1 1/4 | 3 1/8 | 19.00 | 59.50 | 5 | 2 |
| 1 1/2 | 2.10 | 3.85 | 2 1/2 | 3/8 | 1 1/2 | 4.05 | 7.00 | 3 | 5/8 | 2 3/8 | 9.80 | 20.50 | 4 | 1 1/2 | 3 1/8 | 19.60 | 62.75 | 5 | 2 |
| 1 3/4 | 2.20 | 4.00 | 2 1/2 | 3/8 | 1 1/2 | 4.05 | 7.00 | 3 | 5/8 | 2 3/8 | 10.20 | 21.75 | 4 | 1 1/2 | 3 1/8 | 20.20 | 66.00 | 5 | 2 |
| 2 | 2.20 | 4.00 | 2 1/2 | 3/8 | 1 1/2 | 4.30 | 7.50 | 3 | 5/8 | 2 3/8 | 10.60 | 23.00 | 4 | 1 1/2 | 3 1/8 | 20.80 | 69.25 | 5 | 2 |
| 2 1/16 | 2.30 | 4.25 | 2 1/2 | 3/8 | 1 1/2 | 4.30 | 7.50 | 3 | 5/8 | 2 3/8 | 11.00 | 24.25 | 4 | 1 1/2 | 3 1/8 | 21.40 | 72.50 | 5 | 2 |
| 2 1/8 | 2.30 | 4.25 | 2 1/2 | 3/8 | 1 1/2 | 4.55 | 8.25 | 3 | 5/8 | 2 3/8 | 11.40 | 25.50 | 4 | 1 1/2 | 3 1/8 | 22.90 | 79.00 | 5 1/2 | 2 1/4 |
| 2 1/4 | 2.40 | 4.50 | 2 1/2 | 3/8 | 1 1/2 | 4.80 | 9.00 | 3 | 5/8 | 2 3/8 | 11.80 | 27.00 | 4 | 1 1/2 | 3 1/8 | 24.40 | 85.50 | 5 1/2 | 2 1/4 |
| 2 1/2 | 2.40 | 4.50 | 2 1/2 | 3/8 | 1 1/2 | 5.10 | 9.75 | 3 1/2 | 1 | 2 1/8 | 12.20 | 28.50 | 4 | 1 1/2 | 3 1/8 | 25.90 | 92.00 | 5 1/2 | 2 1/4 |
| 2 3/4 | 2.50 | 4.75 | 2 1/2 | 3/8 | 1 1/2 | 5.40 | 10.50 | 3 1/2 | 1 | 2 1/8 | 12.60 | 30.00 | 4 | 1 1/2 | 3 1/8 | 27.40 | 98.50 | 5 1/2 | 2 1/4 |
| 3 | 2.50 | 4.75 | 2 1/2 | 3/8 | 1 1/2 | 5.70 | 11.25 | 3 1/2 | 1 | 2 1/8 | 13.10 | 31.50 | 4 1/2 | 1 3/4 | 3 1/8 | 29.30 | 105.00 | 6 | 2 1/2 |
| 3 1/16 | 2.70 | 5.00 | 2 1/2 | 3/8 | 1 1/2 | 6.00 | 12.00 | 3 1/2 | 1 | 2 1/8 | 13.60 | 33.25 | 4 1/2 | 1 3/4 | 3 1/8 | 31.20 | 111.50 | 6 | 2 1/2 |
| 3 1/8 | 2.70 | 5.00 | 2 3/4 | 5/8 | 1 1/2 | 6.30 | 12.75 | 3 1/2 | 1 | 2 1/8 | 14.10 | 35.25 | 4 1/2 | 1 3/4 | 3 1/8 | 33.10 | 118.00 | 6 | 2 1/2 |
| 3 1/4 | 2.90 | 5.25 | 2 3/4 | 5/8 | 1 1/2 | 6.60 | 13.50 | 3 1/2 | 1 | 2 1/8 | 14.60 | 37.50 | 4 1/2 | 1 3/4 | 3 1/8 | 35.00 | 125.00 | 6 | 2 1/2 |

Shell Reamers have taper holes, the diameter given being at the large end.

Reamers Style 626 have no radial clearance but are ground with longitudinal clearance. Keep cutting points sharp.

DRILL AND REAMER ARBORS

MORSE STRAIGHT SHANK

MORSE TAPER SHANK



No. 505—For Shell Drills and Reamers



No. 506—For Shell Drills and Reamers

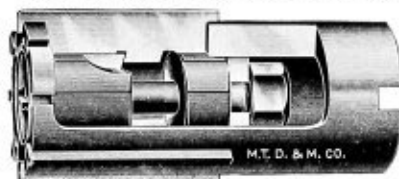
| Nos. | Each | Fitting Sizes, Inches | Length, Inches | Length, Shank, Inches | Diam. Shank, Inches |
|------|--------|--------------------------|-------------------|-----------------------------|---------------------------|
| 3 | \$2.40 | 1/2 to 5/8 | 8 | 5 1/2 | 1 1/2 |
| 4 | 2.70 | 5/8 to 3/4 | 9 | 6 1/2 | 1 1/2 |
| 5 | 3.00 | 3/4 to 1 1/8 | 9 1/2 | 6 1/2 | 5/8 |
| 6 | 3.30 | 1 1/8 to 1 1/4 | 10 | 6 1/2 | 3/4 |
| 7 | 3.60 | 1 1/4 to 1 1/2 | 11 | 7 1/2 | 3/4 |
| 8 | 4.00 | 1 1/2 to 2 | 12 | 7 1/2 | 1 1/8 |
| 9 | 4.50 | 2 to 2 1/2 | 13 | 8 1/2 | 1 1/8 |
| 10 | 5.25 | 2 1/2 to 3 | 14 | 8 1/2 | 1 1/8 |
| 11 | 7.50 | 3 to 3 1/2 | 15 | 9 1/2 | 2 |
| 12 | 10.50 | 3 1/2 to 4 | 16 | 9 1/2 | 2 1/2 |
| 13 | 13.50 | 4 to 4 1/2 | 17 | 9 1/2 | 2 1/2 |
| 14 | 18.00 | 4 1/2 to 5 1/2 | 18 | 10 1/2 | 2 1/2 |

| Nos. | Each | Fitting Sizes, Inches | Length, Inches | Morse Taper Shank, Nos. |
|------|--------|--------------------------|-------------------|----------------------------------|
| 3 | \$2.90 | 1/2 to 5/8 | 8 | 1 |
| 4 | 3.25 | 5/8 to 3/4 | 9 | 2 |
| 5 | 3.60 | 3/4 to 1 1/8 | 9 1/2 | 2 |
| 6 | 3.95 | 1 1/8 to 1 1/4 | 10 | 3 |
| 7 | 4.30 | 1 1/4 to 1 1/2 | 11 | 3 |
| 8 | 4.80 | 1 1/2 to 2 | 12 | 4 |
| 9 | 5.40 | 2 to 2 1/2 | 13 | 4 |
| 10 | 6.30 | 2 1/2 to 3 | 14 | 5 |
| 11 | 9.00 | 3 to 3 1/2 | 15 | 5 |
| 12 | 12.60 | 3 1/2 to 4 | 16 | 5 |
| 13 | 16.20 | 4 to 4 1/2 | 17 | 5 |
| 14 | 21.60 | 4 1/2 to 5 1/2 | 18 | 5 |

Shanks on above arbors are ground standard to sizes listed.

REAMERS

MORSE ONE-LOCK ADJUSTABLE



No. 730

Carbon Steel

No. 1730

High Speed Steel

Blades Furnished Only in Sets.

| Diam., Inches | Each | | Extra Blades, Per Set | | Diam., Inches | Each | | Extra Blades, Per Set | |
|------------------|-----------------|------------------------|--------------------------|------------------------|------------------|-----------------|------------------------|--------------------------|------------------------|
| | Carbon Steel | High Speed Steel | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel | Carbon Steel | High Speed Steel |
| $\frac{3}{8}$ | \$6.00 | \$7.00 | \$2.80 | \$4.00 | $2\frac{1}{16}$ | \$11.70 | \$14.30 | \$4.30 | \$6.65 |
| $\frac{7}{16}$ | 6.00 | 7.00 | 2.80 | 4.00 | $2\frac{1}{8}$ | 12.00 | 14.65 | 4.40 | 6.80 |
| $\frac{1}{2}$ | 6.00 | 7.00 | 2.80 | 4.00 | $2\frac{1}{4}$ | 12.30 | 15.00 | 4.50 | 6.95 |
| $\frac{9}{16}$ | 6.00 | 7.00 | 2.80 | 4.00 | $2\frac{3}{8}$ | 12.60 | 15.30 | 4.60 | 7.10 |
| 1 | 6.00 | 7.00 | 2.80 | 4.00 | $2\frac{1}{2}$ | 12.90 | 15.65 | 4.70 | 7.25 |
| $1\frac{1}{16}$ | 6.00 | 7.00 | 2.80 | 4.10 | $2\frac{3}{4}$ | 13.20 | 16.00 | 4.80 | 7.40 |
| $1\frac{1}{8}$ | 6.00 | 7.25 | 2.80 | 4.20 | $2\frac{7}{8}$ | 13.70 | 16.55 | 4.90 | 7.55 |
| $1\frac{1}{4}$ | 6.00 | 7.50 | 2.80 | 4.30 | $2\frac{9}{8}$ | 14.20 | 17.10 | 5.00 | 7.70 |
| $1\frac{3}{8}$ | 6.00 | 7.60 | 2.80 | 4.40 | $2\frac{11}{8}$ | 14.70 | 17.65 | 5.10 | 7.85 |
| $1\frac{1}{2}$ | 6.30 | 7.95 | 2.85 | 4.50 | 3 | 15.20 | 18.20 | 5.20 | 8.00 |
| $1\frac{5}{8}$ | 6.60 | 8.30 | 2.90 | 4.60 | $3\frac{1}{16}$ | 17.75 | 20.95 | 5.30 | 8.15 |
| $1\frac{3}{4}$ | 6.90 | 8.65 | 2.95 | 4.70 | $3\frac{1}{8}$ | 18.00 | 21.20 | 5.40 | 8.30 |
| $1\frac{7}{8}$ | 7.20 | 9.00 | 3.00 | 4.80 | $3\frac{3}{8}$ | 18.25 | 21.45 | 5.50 | 8.45 |
| 2 | 7.50 | 9.35 | 3.05 | 4.90 | $3\frac{1}{2}$ | 19.00 | 22.35 | 5.60 | 8.60 |
| $2\frac{1}{16}$ | 7.80 | 9.65 | 3.10 | 5.00 | $3\frac{5}{8}$ | 19.25 | 22.60 | 5.70 | 8.75 |
| $2\frac{1}{8}$ | 8.10 | 10.00 | 3.15 | 5.10 | $3\frac{7}{8}$ | 19.50 | 22.85 | 5.80 | 8.90 |
| $2\frac{1}{4}$ | 8.40 | 10.35 | 3.20 | 5.20 | $3\frac{9}{8}$ | 19.75 | 23.10 | 5.90 | 9.05 |
| $2\frac{3}{8}$ | 8.70 | 10.70 | 3.30 | 5.30 | $3\frac{1}{2}$ | 20.50 | 24.00 | 6.00 | 9.20 |
| $2\frac{1}{2}$ | 9.00 | 11.05 | 3.40 | 5.40 | $3\frac{3}{4}$ | 20.75 | 24.25 | 6.10 | 9.35 |
| $2\frac{5}{8}$ | 9.30 | 11.40 | 3.50 | 5.50 | $3\frac{5}{4}$ | 21.00 | 24.50 | 6.20 | 9.50 |
| $2\frac{3}{4}$ | 9.60 | 11.75 | 3.60 | 5.60 | $3\frac{7}{4}$ | 21.25 | 24.75 | 6.30 | 9.65 |
| $2\frac{7}{8}$ | 9.90 | 12.05 | 3.70 | 5.75 | $3\frac{1}{2}$ | 23.00 | 27.60 | 7.50 | 11.00 |
| 3 | 10.20 | 12.40 | 3.80 | 5.90 | $3\frac{1}{4}$ | 23.25 | 27.85 | 7.60 | 11.20 |
| $3\frac{1}{16}$ | 10.50 | 12.75 | 3.90 | 6.05 | $3\frac{3}{4}$ | 23.50 | 28.10 | 7.70 | 11.40 |
| $3\frac{1}{8}$ | 10.80 | 13.25 | 4.00 | 6.20 | $3\frac{1}{2}$ | 23.75 | 28.35 | 7.80 | 11.60 |
| $3\frac{1}{4}$ | 11.10 | 13.60 | 4.10 | 6.35 | 4 | 24.50 | 29.30 | 7.90 | 11.80 |
| $3\frac{3}{8}$ | 11.40 | 13.95 | 4.20 | 6.50 | | | | | |

An Adjustment Socket Wrench and a Key are furnished without charge with each Reamer.

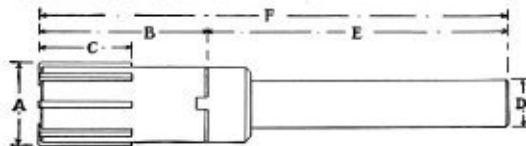
Turning the Cam Bolt in the Shell by the slotted head moves all blades at once and all exactly alike, outward from the center. When the desired diameter is reached be sure all blades are firmly seated on Cam Bolt before the Lock Nut is tightened.

Nothing to get out of order. Only three parts besides blades. One movement operates all blades at once. One nut locks them.

Exact adjustment is quickly made to any size within range without regrinding blades.

Reamers for Brass or Bronze require special clearance and are so furnished on request.

DIMENSIONS OF ONE-LOCK REAMER PARTS



| A | B | C | D | E | F |
|----------------------------------|--------------------------|-------------------------|---------------------------|--|---------------------------------------|
| Diameter of Reamer, Inches | Length of Reamer, Inches | Length of Blade, Inches | Diameter of Arbor, Inches | Length Straight or Morse Taper Arbor, Inches | Whole Length Reamer and Arbor, Inches |
| $\frac{3}{8}$ to $1\frac{1}{8}$ | $2\frac{1}{2}$ | $1\frac{1}{2}$ | $\frac{5}{8}$ | $6\frac{5}{8}$ | $9\frac{7}{8}$ |
| 1 to $1\frac{1}{4}$ | $3\frac{1}{8}$ | $1\frac{1}{2}$ | $\frac{3}{4}$ | $7\frac{1}{2}$ | $10\frac{5}{8}$ |
| $1\frac{1}{8}$ to $1\frac{1}{2}$ | $3\frac{1}{2}$ | $1\frac{1}{2}$ | $\frac{7}{8}$ | $7\frac{3}{4}$ | $11\frac{1}{8}$ |
| $1\frac{1}{4}$ to $2\frac{1}{8}$ | $4\frac{1}{8}$ | $2\frac{1}{8}$ | $1\frac{1}{8}$ | $8\frac{1}{4}$ | $12\frac{1}{4}$ |
| $2\frac{1}{8}$ to $2\frac{1}{2}$ | $4\frac{1}{2}$ | $2\frac{1}{2}$ | $1\frac{1}{4}$ | $8\frac{3}{4}$ | $13\frac{1}{4}$ |
| $2\frac{1}{2}$ to $3\frac{1}{8}$ | $5\frac{1}{8}$ | 3 | $1\frac{3}{8}$ | $9\frac{1}{4}$ | $14\frac{1}{8}$ |
| $3\frac{1}{8}$ to $3\frac{1}{2}$ | 6 | $3\frac{3}{4}$ | $1\frac{1}{2}$ | $9\frac{1}{4}$ | $15\frac{1}{4}$ |
| $3\frac{1}{2}$ to 4 | $6\frac{1}{2}$ | 4 | $2\frac{1}{4}$ | 10 | $16\frac{1}{2}$ |

Keys No. 1 fit Reamers $\frac{3}{8}$ to $1\frac{1}{8}$ in. inclusive.

Keys No. 2 fit Reamers $1\frac{1}{8}$ to $2\frac{1}{8}$ in. inclusive.

Keys No. 3 fit Reamers $2\frac{1}{8}$ to 4 in. inclusive.

Wrenches No. 1 fit Reamers $\frac{3}{8}$ to $1\frac{1}{8}$ in. inclusive.

Wrenches No. 2 fit Reamers 1 to $1\frac{1}{8}$ in. inclusive.

Wrenches No. 3 fit Reamers $1\frac{1}{8}$ to $1\frac{1}{2}$ in. inclusive.

Wrenches No. 4 fit Reamers $1\frac{1}{2}$ to $2\frac{1}{8}$ in. inclusive.

Wrenches No. 5 fit Reamers $2\frac{1}{8}$ to $2\frac{1}{2}$ in. inclusive.

Wrenches No. 6 fit Reamers $2\frac{1}{2}$ to $3\frac{1}{8}$ in. inclusive.

Wrenches No. 7 fit Reamers $3\frac{1}{8}$ to 4 in. inclusive.

One-Lock Reamers $\frac{3}{8}$ to $1\frac{1}{8}$ inch diameter will adjust $\frac{1}{16}$ inch; 1 to $1\frac{1}{8}$ inches adjust .025 inch; $1\frac{1}{8}$ to $1\frac{1}{2}$ inches adjust $\frac{1}{16}$ inch; $1\frac{1}{2}$ to $1\frac{1}{2}$ inches adjust $\frac{1}{8}$ inch; 2 to $2\frac{1}{8}$ inches adjust $\frac{1}{16}$ inch; $2\frac{1}{8}$ to 4 inches adjust $\frac{1}{8}$ inch.

The One-Lock Reamer can be adjusted larger or smaller with equal facility. The blades have no endwise movement in the shell, and can always reach to the bottom of a blind hole.

In ordering blades, state size of Reamer and also length of shell.

Note—For Arbors fitting these Reamers see following page.

ARBORS

FOR ONE-LOCK ADJUSTABLE REAMERS



No. 550—Straight Shank



No. 551—Morse Taper Shank

| Nos. | Each | Fitting Sizes, Inches | Whole Length, Inches | Length of Shank, Inches | Diam. of Shank, Inches |
|------|--------|----------------------------------|----------------------|-------------------------|------------------------|
| 1 | \$2.00 | $\frac{3}{4}$ to $1\frac{1}{8}$ | 7 $\frac{3}{8}$ | 5 $\frac{1}{8}$ | $\frac{5}{8}$ |
| 2 | 2.50 | 1 to $1\frac{3}{8}$ | 8 $\frac{3}{8}$ | 6 $\frac{1}{8}$ | $\frac{3}{4}$ |
| 3 | 2.90 | $1\frac{1}{4}$ to $1\frac{1}{2}$ | 8 $\frac{3}{8}$ | 6 $\frac{1}{8}$ | $\frac{7}{8}$ |
| 4 | 3.75 | $1\frac{3}{4}$ to $2\frac{1}{8}$ | 9 $\frac{1}{2}$ | 7 $\frac{1}{8}$ | $1\frac{1}{8}$ |
| 5 | 4.15 | $2\frac{1}{4}$ to $2\frac{1}{2}$ | 10 $\frac{1}{4}$ | 7 $\frac{1}{8}$ | $1\frac{1}{8}$ |
| 6 | 5.80 | $2\frac{3}{4}$ to $3\frac{1}{8}$ | 11 | 8 $\frac{1}{8}$ | $1\frac{3}{4}$ |
| 7 | 7.50 | $3\frac{3}{4}$ to 4 | 12 | 8 $\frac{1}{8}$ | $2\frac{1}{4}$ |

| Nos. | Each | Fitting Sizes, Inches | Whole Length, Inches | Morse Taper Shank, Nos. |
|------|--------|----------------------------------|----------------------|-------------------------|
| 21 | \$2.50 | $\frac{3}{4}$ to $1\frac{1}{8}$ | 7 $\frac{3}{8}$ | 2 |
| 22 | 3.00 | 1 to $1\frac{3}{8}$ | 8 $\frac{3}{8}$ | 3 |
| 23 | 3.50 | $1\frac{1}{4}$ to $1\frac{1}{2}$ | 8 $\frac{3}{8}$ | 3 |
| 24 | 4.50 | $1\frac{3}{4}$ to $2\frac{1}{8}$ | 9 $\frac{1}{2}$ | 4 |
| 25 | 5.00 | $2\frac{1}{4}$ to $2\frac{1}{2}$ | 10 $\frac{1}{4}$ | 4 |
| 26 | 7.00 | $2\frac{3}{4}$ to $3\frac{1}{8}$ | 11 | 5 |
| 27 | 9.00 | $3\frac{3}{4}$ to 4 | 12 | 5 |

SPIRAL FLUTED EXPANSION REAMERS

MORSE



No. 717—Carbon Steel

The spiral flutes make it an easy free cutting tool which will not catch or chatter in reaming holes where there is a slot, keyway, etc. It has a long guide and is especially adapted for reaming piston pin holes. It is easily adjustable to a few thousandths oversize.

| Diam. Inches | Each | Length of Flute, Inches | Length of Pilot, Inches | Length Over All, Inches | Diam. Inches | Each | Length of Flute, Inches | Length of Pilot, Inches | Length Over All, Inches |
|---------------|---------|-------------------------|-------------------------|-------------------------|----------------|---------|-------------------------|-------------------------|-------------------------|
| $\frac{3}{8}$ | \$ 5.60 | 1 $\frac{7}{8}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | $\frac{7}{8}$ | \$10.00 | 3 $\frac{3}{8}$ | 2 | 9 $\frac{3}{8}$ |
| $\frac{1}{2}$ | 5.80 | 1 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | $\frac{1}{2}$ | 10.40 | 3 $\frac{1}{2}$ | 2 | 9 $\frac{5}{8}$ |
| $\frac{5}{8}$ | 5.80 | 1 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | $\frac{1}{2}$ | 10.80 | 3 $\frac{1}{2}$ | 2 | 9 $\frac{5}{8}$ |
| $\frac{3}{4}$ | 6.00 | 1 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | $\frac{1}{2}$ | 11.30 | 3 $\frac{1}{2}$ | 2 | 9 $\frac{5}{8}$ |
| $\frac{7}{8}$ | 6.00 | 1 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | 1 | 11.80 | 3 $\frac{1}{2}$ | 2 | 10 $\frac{1}{4}$ |
| $\frac{1}{2}$ | 6.20 | 1 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | $1\frac{1}{8}$ | 12.20 | 4 | 2 | 10 $\frac{1}{4}$ |
| $\frac{1}{2}$ | 6.40 | 2 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | $1\frac{1}{8}$ | 12.60 | 4 $\frac{1}{8}$ | 2 | 10 $\frac{1}{4}$ |
| $\frac{1}{2}$ | 6.70 | 2 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 7 | $1\frac{1}{8}$ | 13.10 | 4 $\frac{1}{8}$ | 2 | 10 $\frac{1}{4}$ |
| .6093 | 6.70 | 2 $\frac{1}{8}$ | 2 | 7 $\frac{3}{8}$ | $1\frac{1}{8}$ | 13.60 | 4 $\frac{1}{8}$ | 2 | 10 $\frac{1}{4}$ |
| $\frac{3}{8}$ | 7.00 | 2 $\frac{1}{8}$ | 2 | 7 $\frac{3}{8}$ | $1\frac{1}{8}$ | 14.10 | 4 $\frac{1}{8}$ | 2 | 10 $\frac{1}{4}$ |
| $\frac{3}{8}$ | 7.30 | 2 $\frac{1}{8}$ | 2 | 8 $\frac{1}{8}$ | $1\frac{1}{8}$ | 14.60 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| .668 | 7.70 | 2 $\frac{1}{8}$ | 2 | 8 $\frac{1}{8}$ | $1\frac{1}{8}$ | 15.60 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| $\frac{1}{2}$ | 7.70 | 2 $\frac{1}{8}$ | 2 | 8 $\frac{1}{8}$ | 1.225 | 15.60 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| $\frac{1}{2}$ | 8.00 | 2 $\frac{1}{8}$ | 2 | 8 $\frac{1}{8}$ | 1.234 | 15.60 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| .734 | 8.40 | 2 $\frac{1}{8}$ | 2 | 8 $\frac{1}{8}$ | $1\frac{1}{8}$ | 15.60 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| .740 | 8.40 | 2 $\frac{1}{8}$ | 2 | 8 $\frac{1}{8}$ | $1\frac{1}{8}$ | 16.60 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| $\frac{3}{4}$ | 8.40 | 2 $\frac{1}{8}$ | 2 | 8 $\frac{1}{8}$ | $1\frac{1}{8}$ | 16.60 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| $\frac{3}{4}$ | 8.80 | 3 | 2 | 8 $\frac{1}{8}$ | $1\frac{1}{8}$ | 18.00 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| $\frac{3}{4}$ | 9.20 | 3 $\frac{1}{8}$ | 2 | 9 | $1\frac{1}{8}$ | 18.00 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| $\frac{3}{4}$ | 9.60 | 3 $\frac{1}{8}$ | 2 | 9 $\frac{1}{4}$ | $1\frac{1}{8}$ | 20.00 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| .850 | 10.00 | 3 $\frac{3}{8}$ | 2 | 9 $\frac{3}{8}$ | $1\frac{1}{8}$ | 20.00 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| .855 | 10.00 | 3 $\frac{3}{8}$ | 2 | 9 $\frac{3}{8}$ | $1\frac{1}{8}$ | 22.00 | 4 $\frac{1}{8}$ | 2 | 11 $\frac{1}{8}$ |
| .860 | 10.00 | 3 $\frac{3}{8}$ | 2 | 9 $\frac{3}{8}$ | $1\frac{1}{8}$ | 22.00 | 4 $\frac{1}{8}$ | 2 | 12 |
| .865 | 10.00 | 3 $\frac{3}{8}$ | 2 | 9 $\frac{3}{8}$ | $1\frac{1}{8}$ | 22.00 | 4 $\frac{1}{8}$ | 2 | 12 $\frac{1}{8}$ |

REAMERS

MORSE EXPANSION



No. 715—Carbon Steel

| Diam. Inches | Each | Length, Inches | Length Flutes, Inches | Diam. Inches | Each | Length, Inches | Length Flutes, Inches |
|-----------------|--------|-------------------|-----------------------------|-----------------|--------|-------------------|-----------------------------|
| 1/4 | \$3.00 | 4 | 1 1/2 | 1 1/2 | \$7.00 | 10 | 4 1/2 |
| 3/8 | 3.05 | 4 | 1 1/2 | 1 1/4 | 7.25 | 10 | 4 1/2 |
| 1/2 | 3.10 | 4 | 1 1/2 | 1 3/8 | 7.50 | 10 | 4 1/2 |
| 5/8 | 3.15 | 4 | 1 1/2 | 1 1/2 | 7.75 | 10 1/2 | 4 3/4 |
| 3/4 | 3.20 | 5 | 2 | 1 3/4 | 8.00 | 10 1/2 | 4 3/4 |
| 7/8 | 3.25 | 5 | 2 | 1 5/8 | 8.30 | 10 1/2 | 4 3/4 |
| 1 | 3.30 | 5 | 2 | 1 5/4 | 8.60 | 10 1/2 | 4 3/4 |
| 1 1/8 | 3.35 | 5 | 2 | 1 1/2 | 8.90 | 11 | 5 |
| 1 1/4 | 3.40 | 6 | 2 1/2 | 1 3/4 | 9.20 | 11 | 5 |
| 1 1/2 | 3.50 | 6 | 2 1/2 | 1 5/8 | 9.50 | 11 | 5 |
| 1 3/4 | 3.65 | 6 | 2 1/2 | 1 1/2 | 10.00 | 11 | 5 |
| 2 | 3.80 | 6 | 2 1/2 | 1 3/4 | 10.50 | 11 1/2 | 5 1/4 |
| 2 1/8 | 4.00 | 7 | 3 | 1 5/8 | 11.00 | 11 1/2 | 5 1/4 |
| 2 1/4 | 4.20 | 7 | 3 | 1 1/2 | 11.50 | 11 1/2 | 5 1/4 |
| 2 1/2 | 4.40 | 7 | 3 | 1 3/4 | 12.00 | 11 1/2 | 5 1/4 |
| 2 3/4 | 4.60 | 7 | 3 | 1 1/2 | 12.50 | 12 | 5 1/2 |
| 3 | 4.80 | 8 | 3 1/2 | 1 3/4 | 13.00 | 12 | 5 1/2 |
| 3 1/8 | 5.00 | 8 | 3 1/2 | 1 5/8 | 13.50 | 12 1/2 | 5 3/4 |
| 3 1/4 | 5.25 | 8 | 3 1/2 | 1 1/2 | 14.00 | 12 1/2 | 5 3/4 |
| 3 1/2 | 5.50 | 8 | 3 1/2 | 1 3/4 | 14.50 | 13 | 6 |
| 3 3/4 | 5.75 | 9 | 4 | 1 1/2 | 15.00 | 13 | 6 |
| 4 | 6.00 | 9 | 4 | 1 3/4 | 15.50 | 13 1/2 | 6 1/4 |
| 4 1/8 | 6.25 | 9 | 4 | 1 1/2 | 16.00 | 13 1/2 | 6 1/4 |
| 4 1/4 | 6.50 | 9 | 4 | 2 | 16.50 | 14 | 6 1/2 |
| 4 1/2 | 6.75 | 10 | 4 1/2 | | | | |

Limits of expansion recommended for these Reamers are as follows: Sizes 1/4 to 1 1/8 .005 inch; 1/2 to 3 1/4 .008 inch; 1 to 1 3/4 .010 inch; 1 3/4 to 2 1/4 inch .012 inch; 2 1/4 to 3 .015 inch.

The guides to these Reamers are ground .005 inch under size.

Reamers for Brass or Bronze require special clearance and are so furnished on request.

64th sizes from 1/4 to 1 inch inclusive furnished at list price of next larger listed size.

MORSE ADJUSTABLE



No. 720—Carbon Steel

A Wrench furnished with each Reamer.

| Diam., Inches | Each | Length, Inches | Diam., Inches | Each | Length, Inches |
|------------------|--------|-------------------|------------------|---------|-------------------|
| 1 | \$5.90 | 9 | 2 1/8 | \$19.50 | 14 |
| 1 1/8 | 6.20 | 10 | 2 3/8 | 21.00 | 14 |
| 1 1/4 | 6.50 | 10 | 2 1/2 | 22.50 | 14 |
| 1 1/2 | 6.80 | 10 | 2 1/4 | 24.00 | 14 |
| 1 3/4 | 7.10 | 10 | 2 3/4 | 25.00 | 14 1/2 |
| 1 5/8 | 7.40 | 11 | 2 5/8 | 26.00 | 14 1/2 |
| 1 3/4 | 7.80 | 11 | 2 1/2 | 27.00 | 14 1/2 |
| 1 7/8 | 8.20 | 11 | 2 3/4 | 28.00 | 14 1/2 |
| 1 1/2 | 8.60 | 11 | 2 1/4 | 28.75 | 15 |
| 1 5/8 | 9.00 | 12 | 2 3/8 | 29.50 | 15 |
| 1 3/4 | 9.30 | 12 | 2 1/2 | 30.75 | 15 |
| 1 7/8 | 9.60 | 12 | 3 | 32.00 | 15 |
| 1 1/2 | 9.90 | 12 | 3 1/8 | 36.00 | 15 1/2 |
| 1 3/4 | 10.20 | 13 | 3 1/4 | 40.00 | 15 1/2 |
| 1 5/8 | 10.40 | 13 | 3 3/8 | 44.00 | 16 |
| 1 1/2 | 10.60 | 13 | 3 1/2 | 48.50 | 16 |
| 2 | 10.80 | 13 | 3 3/4 | 53.50 | 16 1/2 |
| 2 1/8 | 11.80 | 13 1/2 | 3 3/8 | 58.50 | 16 1/2 |
| 2 1/4 | 12.80 | 13 1/2 | 3 1/2 | 63.50 | 17 |
| 2 1/2 | 15.60 | 13 1/2 | 4 | 67.50 | 17 |
| 2 3/4 | 18.00 | 13 1/2 | | | |

A ground, tapered plug, acting upon the chasers, adjusts the Reamers to the size desired.

To operate the plug, the Head Nut should be loosened, and the plug then turned until size desired is obtained. The Head Nut should then be tightened. Reamers 1 inch diameter will adjust .02 inch; 1 1/8 to 1 1/2 inches adjust 1/32 inch; 1 1/2 to 3 inches adjust 1/16 inch; 3 1/2 to 4 inches adjust .055 inch.

Reamers for Brass or Bronze require special clearance and are so furnished on request.

MORSE IMPROVED ADJUSTABLE

No. 728—Carbon Steel



No. 1728—High Speed Steel

| Size Letter | Each | | Extra Blades, Per Set | | Extra Nuts, Each | Range Inches | Lgth., In. | Lgth. Blade, In. | Size Letter | Each | | Extra Blades, Per Set | | Extra Nuts, Each | Range Inches | Lgth., In. | Lgth. Blade, In. |
|----------------|----------------------|------------------------|-----------------------------|------------------------|------------------------|-----------------|---------------|------------------------|----------------|----------------------|------------------------|-----------------------------|------------------------|------------------------|-----------------|---------------|------------------------|
| | Car- bon Steel | High Speed Steel | Car- bon Steel | High Speed Steel | | | | | | Car- bon Steel | High Speed Steel | Car- bon Steel | High Speed Steel | | | | |
| A | \$4.50 | \$5.75 | \$1.80 | \$4.20 | \$0.30 | 1/8 to 1/4 | 5 1/2 | 1 1/4 | H | \$5.80 | \$7.85 | \$2.40 | \$4.80 | .40 | 1/8 to 1/4 | 9 | 3 1/4 |
| B | 4.50 | 5.75 | 1.80 | 4.20 | .30 | 1/8 to 1/4 | 5 3/4 | 1 1/2 | I | 7.00 | 8.75 | 2.70 | 5.10 | .45 | 1/8 to 1/4 | 10 | 3 3/8 |
| C | 4.75 | 6.00 | 1.80 | 4.20 | .30 | 1/8 to 1/4 | 6 1/2 | 2 1/4 | J | 8.00 | 10.00 | 2.70 | 5.10 | .45 | 1/8 to 1/4 | 11 | 3 1/2 |
| D | 4.75 | 6.25 | 1.80 | 4.20 | .30 | 1/8 to 1/4 | 6 3/4 | 2 1/4 | K | 10.00 | 12.50 | 3.30 | 6.00 | .50 | 1/8 to 1/4 | 12 | 4 1/8 |
| E | 5.00 | 6.50 | 2.10 | 4.50 | .35 | 1/8 to 1/4 | 7 | 2 3/4 | L | 11.50 | 15.00 | 3.90 | 8.10 | .65 | 1/8 to 1/4 | 14 | 4 3/4 |
| F | 5.00 | 6.80 | 2.10 | 4.50 | .35 | 1/8 to 1/4 | 7 1/2 | 2 3/4 | M | 15.00 | 18.75 | 4.20 | 9.90 | .70 | 1/8 to 1/4 | 16 | 5 |
| G | 5.50 | 7.10 | 2.40 | 4.80 | .40 | 1/8 to 1/4 | 8 | 3 | | | | | | | | | |

Set of Reamers A to H, inc., Carbon Steel, in Case... \$41.50 Per Set
Set of Reamers A to K, inc., Carbon Steel, in Case... \$67.00 Per Set

The six tapered blades slide lengthwise in the body slots and are firmly held by the two collars in the position that gives the size desired. No special wrench is needed.

Reamers for Brass or Bronze require special clearance and are so furnished on request.

REAMERS

MORSE TAPER PIN



No. 680—Carbon Steel

Taper $\frac{1}{4}$ inch Per Foot.

| Size Number | Each | Diam. at Small End, Inches | Length, Inches | Length Flutes, Inches |
|-------------|---------|----------------------------|------------------|-----------------------|
| 000 | \$ 1.50 | .101 | 2 | 1 $\frac{3}{8}$ |
| 00 | 1.35 | .114 | 2 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |
| 0 | 1.00 | .127 | 2 $\frac{3}{8}$ | 1 $\frac{5}{8}$ |
| 1 | 1.00 | .146 | 2 $\frac{1}{2}$ | 1 $\frac{3}{4}$ |
| 2 | 1.25 | .162 | 3 | 2 |
| 3 | 1.50 | .183 | 3 $\frac{1}{2}$ | 2 $\frac{1}{4}$ |
| 4 | 1.75 | .208 | 4 | 2 $\frac{1}{2}$ |
| 5 | 2.00 | .240 | 4 $\frac{1}{2}$ | 3 |
| 6 | 2.25 | .279 | 5 | 3 $\frac{5}{8}$ |
| 7 | 2.50 | .331 | 6 | 4 $\frac{1}{2}$ |
| 8 | 3.00 | .398 | 6 $\frac{3}{4}$ | 5 $\frac{1}{4}$ |
| 9 | 3.50 | .482 | 8 | 6 $\frac{3}{8}$ |
| 10 | 4.50 | .581 | 9 | 7 |
| 11 | 6.00 | .706 | 11 $\frac{1}{4}$ | 8 $\frac{1}{4}$ |
| 12 | 7.50 | .842 | 13 $\frac{3}{8}$ | 10 |
| 13 | 9.00 | 1.009 | 16 | 12 |
| 14 | 11.00 | 1.250 | 18 $\frac{1}{4}$ | 14 |

These Reamers have the same taper, and each will overlay in convenient measure the next size smaller.

Special sizes made to order at special prices.

Reamers for Brass or Bronze require special clearance and are so furnished on request.

TAPER PIN REAMERS IN SETS

Per Set

No. 680A-Set, 1 Each 00 to 5 Taper Pin Reamers. \$11.00

No. 680B-Set, 1 Each 0 to 5 Taper Pin Reamers. 9.50

No. 680C-Set, 1 Each 0 to 10 Taper Pin Reamers. 26.50

MORSE BIT STOCK TAPER



No. 692—Carbon Steel

Taper 1 inch to the foot. Diameter at large end of flutes is $\frac{1}{16}$ inch larger than nominal size.

| Nominal Size, Inches | Each | Length, Inches | Length Flutes, Inches | Diam. Small End, Inches | Diam. Large End, Inches |
|----------------------|--------|-----------------|-----------------------|-------------------------|-------------------------|
| $\frac{1}{16}$ | \$0.60 | 3 $\frac{3}{4}$ | 1 $\frac{5}{8}$ | .052 | $\frac{3}{16}$ |
| $\frac{1}{8}$ | .60 | 3 $\frac{3}{8}$ | 1 $\frac{3}{4}$ | .104 | $\frac{1}{4}$ |
| $\frac{1}{4}$ | .60 | 4 | 1 $\frac{7}{8}$ | .156 | $\frac{3}{8}$ |
| $\frac{3}{8}$ | .60 | 4 $\frac{1}{4}$ | 2 | .208 | $\frac{1}{2}$ |
| $\frac{1}{2}$ | .65 | 4 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | .260 | $\frac{3}{4}$ |
| $\frac{3}{4}$ | .70 | 4 $\frac{3}{4}$ | 2 $\frac{1}{2}$ | .313 | $\frac{1}{2}$ |
| $\frac{1}{2}$ | .75 | 4 $\frac{1}{2}$ | 2 $\frac{3}{8}$ | .365 | $\frac{1}{2}$ |
| $\frac{3}{4}$ | .80 | 4 $\frac{3}{4}$ | 2 $\frac{1}{2}$ | .417 | $\frac{3}{4}$ |
| $\frac{1}{2}$ | .95 | 4 $\frac{3}{4}$ | 2 $\frac{5}{8}$ | .469 | $\frac{1}{2}$ |
| $\frac{3}{4}$ | 1.10 | 4 $\frac{3}{4}$ | 2 $\frac{3}{4}$ | .521 | $\frac{3}{4}$ |
| $\frac{1}{2}$ | 1.25 | 5 | 2 $\frac{7}{8}$ | .573 | $\frac{1}{2}$ |
| $\frac{3}{4}$ | 1.50 | 5 $\frac{1}{4}$ | 3 | .626 | $\frac{3}{4}$ |
| $\frac{1}{2}$ | 1.75 | 5 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | .677 | $\frac{1}{2}$ |
| $\frac{3}{4}$ | 2.00 | 5 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | .730 | 1 |
| 1 | 2.25 | 5 $\frac{1}{2}$ | 3 $\frac{3}{8}$ | .782 | 1 $\frac{1}{8}$ |

BIT STOCK TAPER REAMERS IN SETS

Per Set

No. 692S—Set Consists of One Each No. 692 Bit Stock Taper Reamers $\frac{1}{16}$ to $\frac{3}{4}$ in by 16ths. \$8.25

MORSE SPIRAL TAPER PIN



No. 683—Carbon Steel No. 1683—High Speed Steel

Taper $\frac{1}{4}$ inch Per Foot.

| Size Number | Diam. at Small End, Inches | Length, Inches | Length Flutes, Inches | Carbon Steel Each | High Speed Steel Each |
|-------------|----------------------------|-----------------|-----------------------|-------------------|-----------------------|
| 000 | .101 | 2 | 1 $\frac{3}{8}$ | \$1.75 | \$.... |
| 00 | .114 | 2 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1.75 | 2.25 |
| 0 | .127 | 2 $\frac{3}{8}$ | 1 $\frac{5}{8}$ | 1.75 | 2.25 |
| 1 | .146 | 2 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2.00 | 2.50 |
| 2 | .162 | 3 | 2 | 2.25 | 2.75 |
| 3 | .183 | 3 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | 2.50 | 3.00 |
| 4 | .208 | 4 | 2 $\frac{1}{2}$ | 2.75 | 3.50 |
| 5 | .240 | 4 $\frac{1}{2}$ | 3 | 3.00 | 3.75 |
| 6 | .279 | 5 | 3 $\frac{5}{8}$ | 3.50 | 4.25 |
| 7 | .331 | 6 | 4 $\frac{1}{2}$ | 4.00 | 5.00 |
| 8 | .398 | 6 $\frac{3}{4}$ | 5 $\frac{1}{4}$ | 4.50 | 5.75 |
| 9 | .... | 8 | 6 $\frac{3}{8}$ | 5.00 | .... |
| 10 | .... | 9 | 7 | 6.00 | .... |

MORSE TAPER SHANK STRUCTURAL

A

B

C



Long Body, Straight Flutes

No. 697—Carbon Steel

No. 1697—High Speed Steel

For Boiler Makers, Bridge and Ship Builders

| Dia., Inches at | | | Each | | Lgth. Inches | Lgth. Flutes Inches | Lgth. Taper B to C, Inches | Morse Taper Shank |
|-----------------|---------------|----------------|--------------|------------------|------------------|---------------------|----------------------------|-------------------|
| A | B | C | Carbon Steel | High Speed Steel | | | | |
| $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | \$2.30 | | 6 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 1 | No. 1. |
| $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{4}$ | 2.40 | ..... | 6 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 1 | |
| $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{4}$ | 2.40 | ..... | 6 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 1 | |
| $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | 2.50 | ..... | 7 $\frac{1}{4}$ | 4 | 1 | |
| $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | 2.50 | ..... | 7 $\frac{1}{4}$ | 4 | 1 | |
| $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | 2.60 | \$3.75 | 8 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 1 | No. 2. |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 2.60 | 3.75 | 8 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 1 | |
| $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | 2.65 | 4.00 | 9 | 5 $\frac{1}{8}$ | 2 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 2.75 | 4.00 | 9 | 5 $\frac{1}{8}$ | 2 | |
| $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | 2.90 | 4.25 | 9 | 5 $\frac{1}{8}$ | 2 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 2.90 | 4.25 | 9 | 5 $\frac{1}{8}$ | 2 | No. 3. |
| $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | 3.05 | 4.50 | 10 | 6 $\frac{1}{8}$ | 2 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 3.20 | 4.75 | 11 $\frac{1}{4}$ | 7 $\frac{1}{8}$ | 3 | |
| $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | 3.35 | 5.00 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 3.50 | 5.30 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 3.75 | 5.70 | 12 | 7 $\frac{3}{8}$ | 3 | No. 4. |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 4.00 | 6.00 | 12 | 7 $\frac{3}{8}$ | 3 | |
| 1 | 1 | $\frac{1}{2}$ | 4.25 | 6.50 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 4.50 | 7.00 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 4.75 | 7.50 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 5.00 | 8.00 | 12 | 7 $\frac{3}{8}$ | 3 | No. 5. |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 5.50 | 8.75 | 13 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | 1 | 6.00 | 9.50 | 13 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 6.50 | 10.50 | 13 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 7.00 | 12.00 | 13 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | 1 | 8.00 | 14.00 | 13 | 7 $\frac{3}{8}$ | 3 | No. 6. |
| $\frac{1}{2}$ | $\frac{1}{2}$ | 1 | | | | | | |

These Reamers are designed for hard and rough work and are not ground closely to size. These Reamers from $\frac{1}{16}$ inch to $\frac{3}{4}$ inch inclusive have 4 flutes; from $\frac{1}{8}$ inch to $1 \frac{1}{4}$ inches inclusive have 5 flutes; from $1 \frac{1}{8}$ inches to $1 \frac{1}{2}$ inches inclusive have 6 flutes.

REAMERS

MORSE TAPER SHANK STRUCTURAL

A

B

C



Long Body, Spiral Flutes

No. 1701—High Speed Steel

For Boiler Makers, Bridge and Ship Builders.

| Diameter, Inches at | | | High Speed Steel Each | Length, Inches | Length Flutes, Inches | Length Taper B to C Inches | Morse Taper Shank | Diameter, Inches at | | | High Speed Steel Each | Length, Inches | Length Flutes, Inches | Length Taper B to C Inches | Morse Taper Shank |
|---------------------|-----------------|-----------------|-----------------------|------------------|-----------------------|----------------------------|-------------------|---------------------|-----------------|-----------------|-----------------------|----------------|-----------------------|----------------------------|-------------------|
| A | B | C | | | | | | A | B | C | | | | | |
| $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | \$3.75 | 8 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 1 | No. 2 | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | \$6.00 | 12 | 7 $\frac{3}{8}$ | 3 | No. 3 |
| $\frac{7}{16}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | 3.75 | 8 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 1 | | 1 | 1 | $\frac{1}{2}$ | 6.50 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 4.00 | 9 | 5 $\frac{1}{8}$ | 2 | | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 7.00 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{9}{16}$ | $\frac{9}{16}$ | $\frac{7}{8}$ | 4.00 | 9 | 5 $\frac{1}{8}$ | 2 | | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 7.50 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{5}{8}$ | $\frac{5}{8}$ | 1 | 4.25 | 9 | 5 $\frac{1}{8}$ | 2 | | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 8.00 | 12 | 7 $\frac{3}{8}$ | 3 | |
| $\frac{3}{4}$ | $\frac{3}{4}$ | 1 $\frac{1}{8}$ | 4.25 | 9 | 5 $\frac{1}{8}$ | 2 | | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | | | | | |
| $\frac{7}{8}$ | $\frac{7}{8}$ | 1 $\frac{1}{4}$ | 4.50 | 10 | 6 $\frac{1}{8}$ | 2 | No. 3 | 1 $\frac{1}{4}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 8.75 | 13 | 7 $\frac{3}{8}$ | 3 | No. 4 |
| 1 | 1 | 1 $\frac{3}{8}$ | 4.75 | 11 $\frac{3}{4}$ | 7 $\frac{1}{8}$ | 3 | | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 | 9.50 | 13 | 7 $\frac{3}{8}$ | 3 | |
| 1 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 5.00 | 12 | 7 $\frac{3}{8}$ | 3 | | 1 $\frac{3}{8}$ | 1 $\frac{3}{8}$ | 1 $\frac{1}{2}$ | 10.50 | 13 | 7 $\frac{3}{8}$ | 3 | |
| 1 $\frac{1}{4}$ | 1 $\frac{1}{4}$ | 1 $\frac{3}{4}$ | 5.30 | 12 | 7 $\frac{3}{8}$ | 3 | | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 12.00 | 13 | 7 $\frac{3}{8}$ | 3 | |
| 1 $\frac{3}{8}$ | 1 $\frac{3}{8}$ | 1 $\frac{3}{4}$ | 5.70 | 12 | 7 $\frac{3}{8}$ | 3 | | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 14.00 | 13 | 7 $\frac{3}{8}$ | 3 | |
| 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 2 | | | | | | | | | | | | | |

All sizes and dimensions and styles not listed are special and subject to special prices.

MORSE TAPER SHANK, STRUCTURAL



Short Body, Straight Flutes

No. 1699—High Speed Steel

| Full Diam., Inches | Diam., at Point, Inches | High Speed Steel Each | Length, Inches | Length Flutes, Inches | Morse Taper Shank |
|--------------------|-------------------------|-----------------------|-------------------|-----------------------|-------------------|
| $\frac{1}{4}$ | $\frac{3}{16}$ | \$3.00 | 5 $\frac{7}{8}$ | 2 $\frac{1}{2}$ | No. 1 |
| $\frac{5}{16}$ | $\frac{3}{8}$ | 3.00 | 5 $\frac{7}{8}$ | 2 $\frac{1}{2}$ | |
| $\frac{3}{8}$ | $\frac{7}{16}$ | 3.00 | 5 $\frac{11}{16}$ | 2 $\frac{3}{4}$ | |
| $\frac{7}{16}$ | $\frac{1}{2}$ | 3.20 | 5 $\frac{11}{16}$ | 2 $\frac{3}{4}$ | |
| $\frac{1}{2}$ | $\frac{5}{8}$ | 3.20 | 5 $\frac{11}{16}$ | 2 $\frac{3}{4}$ | No. 2 |
| $\frac{9}{16}$ | $\frac{3}{4}$ | 3.35 | 6 $\frac{1}{8}$ | 2 $\frac{3}{4}$ | |
| $\frac{5}{8}$ | $\frac{7}{8}$ | 3.35 | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | |
| $\frac{11}{16}$ | 1 | 3.50 | 7 $\frac{1}{8}$ | 3 $\frac{1}{2}$ | |
| $\frac{3}{4}$ | 1 $\frac{1}{8}$ | 3.50 | 7 $\frac{1}{8}$ | 4 | |
| $\frac{7}{8}$ | 1 $\frac{1}{4}$ | 3.70 | 7 $\frac{1}{8}$ | 4 | |
| 1 | 1 $\frac{3}{8}$ | 3.70 | 7 $\frac{1}{8}$ | 4 | No. 3 |
| 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 3.75 | 8 $\frac{1}{8}$ | 4 $\frac{1}{2}$ | |
| 1 $\frac{1}{4}$ | 1 $\frac{3}{4}$ | 3.85 | 8 $\frac{1}{8}$ | 4 $\frac{1}{2}$ | |
| 1 $\frac{3}{8}$ | 1 $\frac{7}{8}$ | 4.00 | 9 $\frac{1}{8}$ | 5 | |
| 1 $\frac{1}{2}$ | 2 | 4.25 | 9 $\frac{1}{8}$ | 5 | |
| 1 $\frac{3}{4}$ | 2 $\frac{1}{4}$ | 4.55 | 9 $\frac{1}{8}$ | 5 | |
| 2 | 2 $\frac{3}{4}$ | 4.80 | 9 $\frac{1}{8}$ | 5 | No. 4 |
| 2 $\frac{1}{4}$ | 3 | 5.20 | 9 $\frac{1}{8}$ | 5 | |
| 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 5.60 | 9 $\frac{1}{8}$ | 5 | |
| 3 | 4 | 6.00 | 9 $\frac{1}{8}$ | 5 | |
| 3 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 6.40 | 9 $\frac{1}{8}$ | 5 | No. 5 |
| 4 | 5 | 7.00 | 9 $\frac{1}{8}$ | 5 | |

Short length Carbon Steel Structural Reamers and all sizes, dimensions and styles not listed are special and subject to special prices.

MORSE TAPER SHANK, STRUCTURAL



Short Body, Spiral Flutes

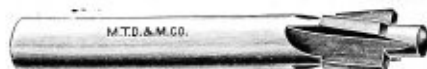
No. 1700—High Speed Steel

| Full Diam., Inches | Diam., at Point, Inches | High Speed Steel Each | Length, Inches | Length Flutes, Inches | Morse Taper Shank |
|--------------------|-------------------------|-----------------------|-------------------|-----------------------|-------------------|
| $\frac{1}{4}$ | $\frac{3}{16}$ | \$3.00 | 5 $\frac{7}{8}$ | 2 $\frac{1}{2}$ | No. 1 |
| $\frac{5}{16}$ | $\frac{3}{8}$ | 3.00 | 5 $\frac{7}{8}$ | 2 $\frac{1}{2}$ | |
| $\frac{3}{8}$ | $\frac{7}{16}$ | 3.00 | 5 $\frac{11}{16}$ | 2 $\frac{3}{4}$ | |
| $\frac{7}{16}$ | $\frac{1}{2}$ | 3.20 | 5 $\frac{11}{16}$ | 2 $\frac{3}{4}$ | |
| $\frac{1}{2}$ | $\frac{5}{8}$ | 3.20 | 5 $\frac{11}{16}$ | 2 $\frac{3}{4}$ | No. 2 |
| $\frac{9}{16}$ | $\frac{3}{4}$ | 3.35 | 6 $\frac{1}{8}$ | 2 $\frac{3}{4}$ | |
| $\frac{5}{8}$ | $\frac{7}{8}$ | 3.35 | 6 $\frac{1}{8}$ | 3 $\frac{1}{8}$ | |
| $\frac{11}{16}$ | 1 | 3.50 | 7 $\frac{1}{8}$ | 3 $\frac{1}{2}$ | |
| $\frac{3}{4}$ | 1 $\frac{1}{8}$ | 3.50 | 7 $\frac{1}{8}$ | 4 | |
| $\frac{7}{8}$ | 1 $\frac{1}{4}$ | 3.70 | 7 $\frac{1}{8}$ | 4 | |
| 1 | 1 $\frac{3}{8}$ | 3.70 | 7 $\frac{1}{8}$ | 4 | No. 3 |
| 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 3.75 | 8 $\frac{1}{8}$ | 4 $\frac{1}{2}$ | |
| 1 $\frac{1}{4}$ | 1 $\frac{3}{4}$ | 3.85 | 8 $\frac{1}{8}$ | 4 $\frac{1}{2}$ | |
| 1 $\frac{3}{8}$ | 1 $\frac{7}{8}$ | 4.00 | 9 $\frac{1}{8}$ | 5 | |
| 1 $\frac{1}{2}$ | 2 | 4.25 | 9 $\frac{1}{8}$ | 5 | |
| 1 $\frac{3}{4}$ | 2 $\frac{1}{4}$ | 4.55 | 9 $\frac{1}{8}$ | 5 | |
| 2 | 2 $\frac{3}{4}$ | 4.80 | 9 $\frac{1}{8}$ | 5 | No. 4 |
| 2 $\frac{1}{4}$ | 3 | 5.20 | 9 $\frac{1}{8}$ | 5 | |
| 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 5.60 | 9 $\frac{1}{8}$ | 5 | |
| 3 | 4 | 6.00 | 9 $\frac{1}{8}$ | 5 | |
| 3 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 6.40 | 9 $\frac{1}{8}$ | 5 | No. 5 |
| 4 | 5 | 7.00 | 9 $\frac{1}{8}$ | 5 | |

Short length Carbon Steel Structural Reamers and all sizes, dimensions and styles not listed are special and subject to special prices.

COUNTERBORES

MORSE STRAIGHT SHANK



No. 757—Carbon Steel
For A. S. M. E. Standard Machine Screws.

| No. and Pitch of Screw | Each | Tap Size for Body | | Tap Size for Fil. Head | | Body Size for Fil. Head | | Body Size for Round Head | | Body Size for Flat Head | | Length, Inches | Decimal Equivalent of Body of Screw |
|------------------------|--------|-------------------|------------|------------------------|------------|-------------------------|------------|--------------------------|------------|-------------------------|------------|----------------|-------------------------------------|
| | | Diam. Guide | Diam. Bore | Diam. Guide | Diam. Bore | Diam. Guide | Diam. Bore | Diam. Guide | Diam. Bore | Diam. Guide | Diam. Bore | | |
| 0-80 | \$0.60 | .046 | .062 | .046 | .090 | .062 | .090 | .062 | .136 | .062 | .136 | 2 | .060 |
| 1-72 | .60 | .059 | .075 | .059 | .112 | .073 | .112 | .073 | .159 | .073 | .159 | 2 | .073 |
| 2-64 | .60 | .070 | .088 | .070 | .134 | .086 | .134 | .086 | .185 | .086 | .185 | 2 | .086 |
| 3-56 | .60 | .078 | .101 | .078 | .155 | .099 | .155 | .099 | .209 | .099 | .209 | 2 | .099 |
| 4-48 | .60 | .089 | .114 | .089 | .176 | .113 | .176 | .113 | .232 | .113 | .232 | 2 | .112 |
| 5-44 | .60 | .099 | .127 | .099 | .198 | .125 | .198 | .125 | .256 | .125 | .256 | 2 1/4 | .125 |
| 6-40 | .60 | .110 | .140 | .110 | .219 | .140 | .219 | .140 | .280 | .140 | .280 | 2 1/4 | .138 |
| 7-36 | .60 | .120 | .153 | .120 | .240 | .152 | .240 | .152 | .304 | .152 | .304 | 2 1/4 | .151 |
| 8-36 | .60 | .136 | .166 | .136 | .262 | .166 | .262 | .166 | .328 | .166 | .328 | 2 1/4 | .164 |
| 9-32 | .60 | .140 | .173 | .140 | .284 | .177 | .284 | .177 | .352 | .177 | .352 | 2 1/4 | .177 |
| 10-30 | .60 | .152 | .192 | .152 | .305 | .191 | .305 | .191 | .375 | .191 | .375 | 2 1/2 | .190 |
| 12-28 | .60 | .173 | .218 | .173 | .348 | .218 | .348 | .218 | .424 | .218 | .424 | 2 1/2 | .216 |
| 14-24 | .75 | .193 | .244 | .193 | .390 | .242 | .390 | .242 | .476 | .242 | .476 | 2 1/2 | .242 |
| 16-22 | .75 | .213 | .270 | .213 | .433 | .272 | .433 | .272 | .528 | .272 | .528 | 3 | .268 |
| 18-20 | .75 | .234 | .296 | .234 | .476 | .295 | .476 | .295 | .580 | .295 | .580 | 3 | .294 |
| 20-20 | .90 | .261 | .322 | .261 | .518 | .323 | .518 | .323 | .632 | .323 | .632 | 3 1/4 | .320 |

MORSE TAPER SHANK

No. 765—Carbon Steel



No. 1765—High Speed Steel

These Counterbores are furnished either singly or in sets. A set consists of one counterbore for head of screw with guide of body size, one counterbore for head with guide of tap drill size, and one counterbore to enlarge a tap drill hole to body size. Counterbores of other sizes are made to order at special prices.

| Diam. of Counter-bore, Inch. | Each | | Diam. of Guide, Inches | | Diam. of Screw & Pitch, U. S. Std. | Lgth., Inch. | Morse Taper Shank | Diam. of Counter-bore, Inch. | Each | | Diam. of Guide, Inches | | Diam. of Screw & Pitch, U. S. Std. | Lgth., Inch. | Morse Taper Shank |
|------------------------------|--------------|------------------|------------------------|--------------------|------------------------------------|--------------|-------------------|------------------------------|--------------|------------------|------------------------|--------------------|------------------------------------|--------------|-------------------|
| | Carbon Steel | High Speed Steel | For Body Size Hole | For Tap Drill Hole | | | | | Carbon Steel | High Speed Steel | For Body Size Hole | For Tap Drill Hole | | | |
| 1/4 | \$1.75 | \$2.60 | | .1865 | 1/4-20 | 5 3/4 | 1 | 3/4 | \$2.85 | \$3.60 | | .4057 | 1/2-13 | 7 1/4 | 2 |
| 5/16 | 1.85 | 2.75 | | .241 | 5/16-18 | 6 1/4 | 1 | 3/4 | 2.85 | 3.60 | 1/2 | .624 | 1/2-13 | 7 1/4 | 2 |
| 3/8 | 2.00 | 2.60 | | .1865 | 3/8-16 | 5 3/4 | 1 | 3/4 | 2.85 | 5.25 | | .624 | 3/8-10 | 9 | 3 |
| 7/16 | 2.00 | 2.60 | 1/4 | | 7/16-20 | 5 3/4 | 1 | 1 1/8 | 3.10 | 4.00 | | .452 | 7/16-12 | 7 1/2 | 2 |
| 1/2 | 2.00 | 2.90 | | .301 | 1/2-16 | 6 1/2 | 1 | 1 1/8 | 3.10 | 4.00 | 1/2 | | 1/2-12 | 7 1/2 | 2 |
| 9/16 | 2.10 | 2.75 | | .241 | 9/16-18 | 6 1/4 | 1 | 1 1/8 | 3.10 | 5.25 | | .6865 | 9/16-10 | 9 | 3 |
| 5/8 | 2.10 | 2.75 | 1/2 | | 5/8-18 | 6 1/4 | 1 | 1 1/8 | 3.30 | 4.50 | | .5146 | 5/8-11 | 7 3/4 | 2 |
| 3/4 | 2.10 | 3.50 | | .347 | 3/4-14 | 7 | 2 | 1 1/8 | 3.30 | 4.50 | 3/4 | | 3/4-11 | 7 3/4 | 2 |
| 7/8 | 2.20 | 3.60 | | .4057 | 7/8-13 | 7 1/4 | 2 | 1 1/8 | 3.30 | 5.50 | | .7333 | 7/8-9 | 9 1/4 | 3 |
| 1 1/8 | 2.35 | 3.00 | | .301 | 1-16 | 6 1/2 | 1 | 1 1/8 | 3.55 | 5.00 | | .5771 | 1-11 | 8 1/2 | 3 |
| 1 1/4 | 2.35 | 3.00 | 3/4 | | 1-16 | 6 1/2 | 1 | 1 1/8 | 3.55 | 5.00 | 1 1/8 | | 1-11 | 8 1/2 | 3 |
| 1 1/2 | 2.35 | 3.70 | | .452 | 1 1/8-12 | 7 1/2 | 2 | 1 1/8 | 3.55 | 5.50 | | .7958 | 1 1/8-9 | 9 1/4 | 3 |
| 1 3/4 | 2.55 | 3.50 | | .347 | 1 1/4-14 | 7 | 2 | 1 | 3.85 | 6.00 | | .624 | 1 3/4-10 | 9 | 3 |
| 2 | 2.55 | 3.50 | 1 1/2 | | 1 1/4-14 | 7 | 2 | 1 | 3.85 | 6.00 | 3/4 | | 3/4-10 | 9 | 3 |
| 2 1/4 | 2.55 | 3.80 | | .5146 | 2-11 | 7 3/4 | 2 | 1 | 3.85 | 6.50 | | .8427 | 2-8 | 9 1/2 | 3 |
| 2 1/2 | 2.70 | 5.00 | | .5771 | 2 1/8-11 | 8 1/2 | 3 | | | | | | | | |

MORSE TAPER SHANK INTERCHANGEABLE



No. 760—Carbon Steel
With Interchangeable Blades and Guides.

| Size Nos. | No. Blade or Guide, Each | Blades | | Guides | | Morse Taper Shank | Size Nos. | No. Blade or Guide, Each | Blades | | Guides | | Morse Taper Shank |
|-----------|--------------------------|----------------|--------|----------------|--------|-------------------|-----------|--------------------------|----------------|------|----------------|--------|-------------------|
| | | Sizes by 16ths | Each | Sizes by 16ths | Each | | | | Sizes by 16ths | Each | Sizes by 16ths | Each | |
| 1 | \$6.50 | 3/4-1 | \$0.85 | 1 1/2-1 | \$1.00 | 2 | 3 | \$10.00 | 2 3/4-2 3/4 | 1.65 | 1 1/2-1 1/4 | \$1.60 | 4 |
| | | 1 1/8-1 1/2 | .95 | 1 1/4-1 | 1.25 | | | | 2 3/8-3 | 1.85 | 1 1/8-1 1/2 | 1.75 | |
| 2 | 8.75 | 1 1/8-2 | 1.25 | 7/8-1 | 1.25 | 3 | | | 3 1/8-3 1/4 | 2.15 | 1 1/8-1 3/4 | 1.95 | |
| | | 2 1/8-2 1/2 | 1.40 | 1 1/8-1 1/4 | 1.45 | | | | 3 1/8-3 1/2 | 2.50 | 1 1/4-2 | 2.50 | |

COMBINED DRILLS AND COUNTERSINKS

MORSE TAPER SHANK



No. 497—Carbon Steel
60 Degree Included Angle.

| Size | 1 | 2 | 3 | 4 | 5 |
|-----------------------------|----------------|----------------|---------------|----------------|---------------|
| Diameter Drill, Inches..... | $\frac{1}{16}$ | $\frac{3}{32}$ | $\frac{1}{8}$ | $\frac{5}{16}$ | $\frac{3}{8}$ |
| Diameter Body, Inches..... | $\frac{1}{16}$ | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Each | \$0.75 | .75 | .75 | .75 | .75 |

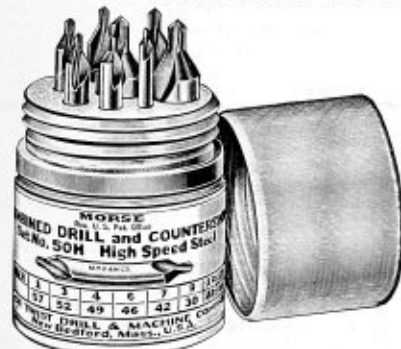
MORSE STRAIGHT SHANK



No. 495—Carbon Steel No. 1495—High Speed Steel
60 Degree Included Angle. Always Specify Number and Size.

| Size | Diam. of Drill at A | Diam. of Drill at B | Approx. Fractional- Equivalent | Per Dozen | | Diam. of Body C, In. | Decimal Equiva- lents A B |
|------|------------------------|------------------------|--------------------------------------|-----------------|------------------------|-------------------------------|------------------------------------|
| | | | | Carbon Steel | High Speed Steel | | |
| 1 | No. 57 x | No. 57 | $\frac{1}{16}$ | \$2.00 | \$6.00 | $\frac{1}{16}$ | .043x.043 |
| 2 | No. 55 x | No. 55 | $\frac{3}{32}$ | 2.25 | 6.00 | $\frac{3}{32}$ | .052x.052 |
| 3 | No. 52 x | No. 52 | $\frac{1}{8}$ | 2.25 | 6.00 | $\frac{1}{8}$ | .063x.063 |
| 4 | No. 49 x | No. 49 | $\frac{3}{16}$ | 2.50 | 6.00 | $\frac{3}{16}$ | .073x.073 |
| 5 | No. 49 x | No. 45 | $\frac{1}{4}$ | 2.50 | 6.00 | $\frac{1}{4}$ | .073x.082 |
| 6 | No. 46 x | No. 46 | $\frac{5}{16}$ | 2.50 | 6.00 | $\frac{5}{16}$ | .081x.081 |
| 7 | No. 42 x | No. 42 | $\frac{3}{8}$ | 2.75 | 6.00 | $\frac{3}{8}$ | .093x.093 |
| 8 | No. 42 x | No. 30 | $\frac{3}{8}$ x $\frac{1}{2}$ | 2.75 | 6.00 | $\frac{3}{8}$ | .093x.128 |
| 9 | No. 30 x | No. 30 | $\frac{1}{2}$ | 2.75 | 6.00 | $\frac{1}{2}$ | .128x.128 |
| 10 | No. 22 x | No. 22 | $\frac{5}{8}$ | 3.50 | 9.00 | $\frac{5}{8}$ | .157x.157 |
| 11 | No. 13 x | No. 13 | $\frac{3}{4}$ | 3.50 | 9.00 | $\frac{3}{4}$ | .185x.185 |
| 12 | $\frac{3}{8}$ x | $\frac{3}{8}$ | $\frac{3}{8}$ | 2.25 | 6.00 | $\frac{3}{8}$ | .046x.046 |
| 14 | $\frac{1}{8}$ x | No. 45 | $\frac{1}{8}$ | 2.25 | 6.00 | $\frac{1}{8}$ | .062x.082 |
| 15 | $\frac{1}{8}$ x | $\frac{3}{8}$ | $\frac{1}{8}$ | 3.50 | 9.00 | $\frac{1}{8}$ | .187x.156 |

MORSE STRAIGHT SHANK IN SETS



In Screw Top Wood Box

Contains One Each Size 1, 3, 4, 6, 7, 9, 10 and 11 Straight Shank Combined Drills and Countersinks with Separate Compartment for Each Size.

Per Set
No. 50—Carbon Steel\$2.25
No. 50H—High Speed Steel 5.00

CENTER REAMERS

MORSE

No. 750—Style 1, 60 Degree Included Angle

| Diam. Body, Inches... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
|------------------------|----------------|----------------|---------------|----------------|----------------|
| Diam. Shank, Inches... | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length, Inches..... | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ | $2\frac{3}{4}$ |
| Length Shank, Inches. | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{7}{8}$ | $\frac{7}{8}$ | 1 |
| Per Dozen | \$3.00 | 3.60 | 4.20 | 7.20 | 9.60 |



No. 750—Style 2, 60 Degree Included Angle

| Diam. Body, Inches... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
|------------------------|----------------|----------------|---------------|----------------|----------------|
| Diam. Shank, Inches... | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length, Inches..... | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ | $2\frac{3}{4}$ |
| Length Shank, Inches. | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{7}{8}$ | $\frac{7}{8}$ | 1 |
| Per Dozen | \$3.60 | 4.20 | 4.80 | 7.80 | 10.20 |

These Reamers with included Angle of 72 and 82 degrees furnished at regular prices. Other angles made to order at special prices.

COUNTERSINKS

MORSE THREE-GROOVE



No. 490—Carbon Steel

Included angle of cutting point is 82 degrees. Countersinks with other angles made to order at special prices.

| Diam. Body, Inches. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Length Body, In... | 3 | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{4}$ | $3\frac{1}{4}$ | $3\frac{1}{4}$ |
| Lgth. Over All, In. | $4\frac{1}{4}$ | $4\frac{1}{4}$ | $4\frac{1}{4}$ | 5 | 5 | 5 |
| Length Twist, In... | $2\frac{1}{4}$ | $1\frac{1}{8}$ | $1\frac{1}{8}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $2\frac{3}{4}$ |
| Each | \$0.50 | .60 | .75 | .90 | 1.05 | 1.20 |

COUNTERSINK BITS

MAYHEW



Flat Pattern, for Metal

Forged Tool Steel, Carefully Tempered.

Per Dozen
No. 320—4 in. Long, Assorted $\frac{5}{8}$ and $\frac{3}{4}$ in. Points,
Weight Per Dozen $1\frac{1}{2}$ Lbs.....\$3.00
One Dozen in a Box.



Rose Pattern

Drop Forged Tool Steel, Carefully Tested and Tempered, Teeth are Milled on a Hammer Forged Blank of Best Steel.

| Nos. | 315A | 315B | 315C |
|---------------------------|---------------|----------------|----------------|
| Size, Inches | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Weight Per Dozen, Lbs.... | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Per Dozen | \$3.25 | 3.50 | 4.00 |

This is the old standard Rose Pattern Countersink for wood or soft metal.

One Dozen in a Box.



Snail Pattern for Wood

Drop Forged Steel, Carefully Tempered Double Undercut Milled Lips, Cuts Rapidly and Smoothly.

Per Dozen
No. 300—4 in. Long, Cuts to $\frac{1}{2}$ in. Diameter, Weight
Per Dozen 15 Oz.....\$3.50
One Dozen in a Box.

STARRETT



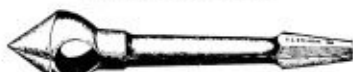
Self-Centering, Double Lip, for Wood

Forged Steel, Twisted and Tempered, Bit Brace Shank.

| Nos. | 195A | 195B |
|--------------------|---------------|---------------|
| Size, Inches | $\frac{5}{8}$ | $\frac{7}{8}$ |
| Each | \$0.60 | .65 |

Six in a Box.

CLARK PATTERN



Double Cut, for Wood

Can be Taken Apart for Sharpening, Cuts Smoothly. Forged from Finest Steel, Polished All Over.

Per Dozen
No. 3— $\frac{7}{8}$ in. Diameter, $4\frac{1}{2}$ in. Long, Weight Per
Dozen $2\frac{1}{2}$ Lbs.....\$7.50
One-half Dozen in a Box.

BURRING REAMERS

GREENFIELD



With Bit Brace Shanks
Highest Grade Steel, Accurately Ground.

| With Spiral Flutes. | | | | |
|---------------------|------------|----------|--------------|----------|
| Nos. | 241 | 242 | 242 1/2 | 244 |
| Burrs Pipe, Inches. | 1/4 to 1/2 | 1/2 to 1 | 1/4 to 1 1/4 | 1/4 to 2 |
| Each | \$1.00 | 1.25 | 1.50 | 3.00 |

| With Straight Flutes | | | | |
|----------------------|--------------|----------|--|--|
| Nos. | 1 | 2 | | |
| Burrs Pipe, inches. | 1/4 to 1 1/4 | 1/4 to 2 | | |
| Each | \$1.50 | 3.00 | | |
| One in a Box. | | | | |



With Straight Shanks
For Use in Drill Presses, High Grade Steel, Spiral Flute.
Each
No. 243—Burrs Pipe, 1/4 to 1 1/4 in., Shank 1/2 in.
Diameter \$1.50
One in a Box.



With T Handle
High Grade Steel,
Spiral Flute, Accurate-
ly Ground.
Each
No. 246—Burrs Pipe
1/4 to 2 in. \$4.00
One in a Box.

MAYHEW



With Bit Brace Shanks, Straight Flutes
Forged Steel, Tempered for Hard Service.

| | | |
|-----------------------|---------|-------|
| Nos. | 388 | 389 |
| Point, Inches | 1/4 | 3/8 |
| Large End, Inches. | 3/8 | 1 1/2 |
| Length Flute, Inches. | 3 | 3 |
| Weight Dozen, Lbs. | 3 3/4 | 7 1/2 |
| Per Dozen | \$17.60 | 20.25 |
| One in a Box. | | |

REAMER BITS

MAYHEW FLUTED



Fine Tool Steel, Carefully Milled and Tempered

| | |
|--|-----------|
| No. 387—1/8 in. Point, 1/2 in. at Large End, 4 in. Flutes, Weight Per Dozen 1 1/2 Lbs. | Per Dozen |
| One Dozen in a Box. | \$9.70 |

MAYHEW SQUARE



No. 390—Forged Tool Steel

| | | |
|------------------------|--------|-------|
| Size | 1 | 2 |
| Reams Holes, Inches. | 1/2 | 3/4 |
| Length, Inches | 6 | 6 |
| Weight Per Dozen, Lbs. | 2 | 3 1/2 |
| Per Dozen | \$4.50 | 4.75 |
| One Dozen in a Box. | | |

SCREW EXTRACTORS

"EZY-OUT"

For quick and easy removal of broken set and cap screws, studs stay-bolts, pipe fittings, etc.



Drill a hole in broken screw and insert proper size **Ezy-Out** Screw Extractor, twisting it as though tapping with a left hand tap. The twist forces **Ezy-Out's** corkscrew-like spirals to grip the

sides of drilled hole and then, as additional force is brought to bear on the Tap Wrench, screw begins to "come"—after which it is an easy matter to spin it out on its own threads.

No. 192—"Ezy-Out" Screw Extractors

| Size Nos. | 1 | 2 | 3 | 4 |
|-----------------------|--------|-------|-------|-------|
| Diam. Small End, In. | .054 | .080 | 1/8 | 3/16 |
| Diam. Large End, In. | .117 | .174 | 1/4 | 5/16 |
| Length Flute, Inches. | 1/2 | 3/4 | 1 | 1 1/4 |
| Length Over All, In. | 2 | 2 3/4 | 2 1/2 | 3 |
| Each | \$0.55 | .60 | .65 | .75 |
| Size Nos. | 5 | 6 | 7 | 8 |
| Diam. Small End, In. | 1/4 | 3/8 | 1/2 | 5/8 |
| Diam. Large End, In. | 3/8 | 1 1/8 | 1 1/4 | 1 3/4 |
| Length Flute, Inches. | 1 1/2 | 1 3/4 | 2 | 2 1/2 |
| Length Over All, In. | 3 3/8 | 3 3/4 | 4 1/4 | 4 3/4 |
| Each | \$0.85 | 1.00 | 1.35 | 1.85 |
| Size Nos. | 9 | 10 | 11 | 12 |
| Diam. Small End, In. | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| Diam. Large End, In. | 1 3/8 | 1 7/8 | 1 7/8 | 2 1/8 |
| Length Flute, Inches. | 2 1/4 | 2 1/2 | 3 | 3 1/2 |
| Length Over All, In. | 4 5/8 | 5 | 5 5/8 | 6 1/4 |
| Each | \$2.65 | 4.00 | 5.35 | 6.65 |

Note—The best results will be obtained by using the largest **Ezy-Out** Screw Extractor possible for any given screw.

"EZY-OUT" SETS

Per Set

No. 15—Tool Room Set, for General Use, Contains 5 Extractors, 1 Each Nos. 1, 2, 3, 4 and 5, Wt. Per Set 1 1/2 Lb. \$3.00

No. 15A—Garage Set, Contains 6 Extractors, 1 Each Nos. 1, 2, 3, 4, 5 and 6, Weight Per Set 3/4 Lb. 4.00

No. 16—Heavy Shop Set, for Use of Railroads, Steel and Structural Iron Works, Contains 4 Extractors, 1 Each Nos. 6, 7, 8 and 9, Wt. Set 1 1/2 Lbs. 6.65

No. 17—Utility Set, for All Around Use by Machine Shops and Auto Repair Shops, Contains 3 Extractors, 1 Each Nos. 4, 5 and 6, Weight Per Set 1/2 Lb. 2.35

"EZY-OUT" SETS WITH DRILLS

Per Set

No. 20—Complete Set, Contains 6 Extractors, 1 Each Nos. 1, 2, 3, 4, 5 and 6 with Proper Straight Shank Drill to Use with Each Extractor, Weight Each 1 Lb. \$5.00



SIZE OF DRILLS FOR "EZY-OUT" SCREW EXTRACTORS

| For Extractor, Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------|------|------|-------|-------|-------|-------|
| Use Drill, Inches. | 3/16 | 3/16 | 3/16 | 1/4 | 5/16 | 3/8 |
| For Extractor, Nos. | 7 | 8 | 9 | 10 | 11 | 12 |
| Use Drill, Inches. | 3/8 | 1/2 | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 |

PLAIN MILLING CUTTERS

MORSE

No. 830—Carbon Steel.

No. 1830—High Speed Steel.

Cutters of less than $\frac{3}{4}$ inch face have straight teeth.Cutters of $\frac{3}{4}$ inch face and over have spiral teeth.

In ordering, carefully state diameter and face of Cutter and size of hole desired.

Cutters having nicked teeth or dimensions other than listed are special and subject to special prices.



| Diam., Inches | Face, Inches | Hole, Inches | Each | | Diam., Inches | Face, Inches | Hole, Inches | Each | | Diam., Inches | Face, Inches | Hole, Inches | Each | |
|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-----------------|-----------------|-----------------|------------------------|
| | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel |
| 2 1/4 | 1/2 | 3/8 | \$2.25 | \$4.15 | 3 | 3/8 | 1 | \$1.75 | \$3.60 | 3 | 5 | 1 1/4 | \$9.90 | \$25.50 |
| 2 1/4 | 1 | 3/8 | 3.20 | 6.00 | 3 | 1/2 | 1 | 2.10 | 4.00 | 3 | 6 | 1 1/4 | 13.70 | 33.00 |
| 2 1/2 | 3/8 | 1 | 1.65 | 3.25 | 3 | 3/8 | 1 | 2.35 | 4.50 | 4 | 1/2 | 1 | 2.60 | 5.50 |
| 2 1/2 | 1/2 | 1 | 1.80 | 3.50 | 3 | 1/2 | 1 | 2.70 | 5.10 | 4 | 3/4 | 1 1/4 | 2.60 | 5.50 |
| 2 1/2 | 3/4 | 1 | 1.90 | 3.75 | 3 | 3/4 | 1 1/4 | 2.70 | 5.10 | 4 | 1 | 1 1/4 | 3.20 | 6.50 |
| 2 1/2 | 1 | 1 | 2.10 | 4.00 | 3 | 1 | 1 1/4 | 2.85 | 5.40 | 4 | 1 1/4 | 1 1/4 | 3.20 | 6.50 |
| 2 1/2 | 1 1/8 | 1 | 2.20 | 4.25 | 3 | 1 1/8 | 1 1/4 | 3.10 | 5.90 | 4 | 1 1/2 | 1 | 3.85 | 7.70 |
| 2 1/2 | 1 1/4 | 1 | 2.30 | 4.50 | 3 | 1 1/4 | 1 1/4 | 3.50 | 6.75 | 4 | 1 3/4 | 1 1/4 | 3.85 | 7.70 |
| 2 1/2 | 1 1/2 | 1 | 2.50 | 4.80 | 3 | 1 1/2 | 1 1/4 | 3.85 | 7.50 | 4 | 2 | 1 1/4 | 4.50 | 8.85 |
| 2 1/2 | 1 3/4 | 1 | 2.80 | 5.40 | 3 | 1 3/4 | 1 1/4 | 4.20 | 8.25 | 4 | 2 1/2 | 1 1/4 | 5.00 | 9.75 |
| 2 1/2 | 2 | 1 | 3.10 | 6.00 | 3 | 2 | 1 1/4 | 4.60 | 9.10 | 4 | 3 | 1 1/4 | 5.50 | 10.90 |
| 2 1/2 | 2 1/4 | 1 | 3.30 | 6.50 | 3 | 2 1/4 | 1 1/4 | 5.10 | 10.35 | 4 | 3 1/2 | 1 1/4 | 6.00 | 12.10 |
| 2 1/2 | 2 1/2 | 1 | 3.70 | 7.50 | 3 | 2 1/2 | 1 1/4 | 5.50 | 11.50 | 4 | 4 | 1 1/4 | 6.50 | 13.35 |
| 2 1/2 | 2 3/4 | 1 | 4.00 | 8.25 | 3 | 2 3/4 | 1 1/4 | 5.70 | 12.30 | 4 | 4 1/2 | 1 1/4 | 7.15 | 14.70 |
| 2 1/2 | 3 | 1 | 4.35 | 9.15 | 3 | 3 | 1 1/4 | 6.00 | 13.30 | 4 | 5 | 1 1/4 | 7.90 | 16.70 |
| 2 1/2 | 3 1/4 | 1 | 4.75 | 10.10 | 3 | 3 1/4 | 1 1/4 | 6.60 | 15.25 | 4 | 5 1/2 | 1 1/4 | 8.40 | 18.40 |
| 2 1/2 | 3 1/2 | 1 | 5.25 | 11.60 | 3 | 3 1/2 | 1 1/4 | 7.00 | 17.00 | 4 | 6 | 1 1/4 | 9.50 | 21.90 |
| 2 1/2 | 3 3/4 | 1 | 5.70 | 13.00 | 3 | 3 3/4 | 1 1/4 | 7.50 | 18.80 | 4 | 6 1/2 | 1 1/4 | 11.50 | 28.50 |
| 2 1/2 | 4 | 1 | 7.00 | 16.35 | 3 | 4 | 1 1/4 | 8.15 | 20.75 | 4 | 7 | 1 1/4 | 14.00 | 36.75 |

PLAIN SIDE MILLING CUTTERS

No. 833—Carbon Steel.

MORSE

No. 1833—High Speed Steel.

| Diam., Inches | Face, Inches | Hole, Inches | Each | | Diam., Inches | Face, Inches | Hole, Inches | Each | | Diam., Inches | Face, Inches | Hole, Inches | Each | |
|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-----------------|-----------------|-----------------|------------------------|
| | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel |
| 2 | 1/8 | 1/2 | \$2.35 | \$3.60 | 3 | 1/2 | 1 | \$4.30 | \$7.65 | 5 | 1/2 | 1 | \$6.70 | \$13.60 |
| 2 | 3/8 | 5/8 | 2.35 | 3.60 | 3 1/2 | 1/2 | 1 | 4.80 | 8.65 | 5 | 1 1/4 | 1 1/4 | 6.70 | 13.60 |
| 2 | 1/4 | 1/2 | 2.60 | 4.10 | 3 1/2 | 3/4 | 1 | 5.35 | 9.60 | 5 | 3/4 | 1 | 7.30 | 15.20 |
| 2 | 3/4 | 5/8 | 2.60 | 4.10 | 3 1/2 | 1 | 1 | 5.80 | 10.65 | 5 | 5/8 | 1 1/4 | 7.30 | 15.20 |
| 2 | 5/8 | 1/2 | 2.80 | 4.50 | 3 1/2 | 5/8 | 1 | 5.80 | 10.65 | 5 | 3/4 | 1 | 8.10 | 17.10 |
| 2 | 3/8 | 5/8 | 2.80 | 4.50 | 4 | 1/2 | 1 | 3.70 | 7.00 | 5 | 3/4 | 1 1/4 | 8.10 | 17.10 |
| 2 1/2 | 1/4 | 7/8 | 2.80 | 4.65 | 4 | 3/8 | 1 | 5.20 | 9.50 | 5 | 1 | 1 | 9.90 | 20.20 |
| 2 1/2 | 3/8 | 7/8 | 2.90 | 4.90 | 4 | 1/2 | 1 | 6.50 | 11.90 | 5 | 1 1/4 | 1 1/4 | 9.90 | 20.20 |
| 2 1/2 | 1/2 | 7/8 | 3.15 | 5.30 | 4 | 3/4 | 1 1/4 | 6.50 | 11.90 | 6 | 1/2 | 1 | 8.60 | 18.65 |
| 2 1/2 | 3/4 | 7/8 | 3.25 | 5.50 | 4 | 1 | 1 | 7.10 | 13.15 | 6 | 3/4 | 1 | 9.65 | 22.25 |
| 2 1/2 | 1 | 7/8 | 3.40 | 5.80 | 4 | 5/8 | 1 1/4 | 7.10 | 13.15 | 6 | 1 | 1 1/4 | 9.65 | 22.25 |
| 3 | 1/4 | 1 | 3.15 | 5.40 | 4 | 3/4 | 1 | 7.65 | 14.40 | 6 | 1 1/4 | 1 1/4 | 11.00 | 26.40 |
| 3 | 3/8 | 1 | 3.60 | 6.25 | 4 | 1 | 1 1/4 | 7.65 | 14.40 | 7 | 3/4 | 1 1/4 | 17.50 | 36.25 |
| 3 | 1/2 | 1 | 3.85 | 6.65 | 4 | 1 1/4 | 1 | 8.25 | 17.30 | 7 | 1 | 1 1/4 | 20.40 | 43.15 |
| 3 | 3/4 | 1 | 4.10 | 7.15 | 4 | 1 1/2 | 1 1/4 | 8.25 | 17.30 | 8 | 1 | 1 1/4 | 24.75 | 55.20 |

COARSE TOOTH PLAIN MILLING CUTTERS

MORSE

No. 1802—High Speed Steel.

These Cutters with wide spaced teeth have a marked advantage on many classes of work over the usual types, being capable of removing a considerably greater quantity of metal in a given time without distressing the cutter or overloading the machine.



| Diam., Inches | Width Face, Inches | Diam., Hole, Inches | Each | Diam., Inches | Width Face, Inches | Diam., Hole, Inches | Each |
|------------------|--------------------------|---------------------------|---------|------------------|--------------------------|---------------------------|---------|
| 2 1/2 | 2 | 1 | \$10.10 | 3 | 5 | 1 1/4 | \$25.50 |
| 2 1/2 | 2 1/2 | 1 | 11.60 | 3 | 6 | 1 1/4 | 33.00 |
| 2 1/2 | 3 | 1 | 13.00 | 4 | 2 | 1 1/2 | 21.90 |
| 2 1/2 | 4 | 1 | 16.35 | 4 | 3 | 1 1/2 | 28.50 |
| 3 | 2 | 1 1/4 | 13.30 | 4 | 4 | 1 1/2 | 36.75 |
| 3 | 2 1/2 | 1 1/4 | 15.25 | 4 | 5 | 1 1/2 | 45.20 |
| 3 | 3 | 1 1/4 | 17.00 | 4 | 6 | 1 1/2 | 54.10 |
| 3 | 4 | 1 1/4 | 20.75 | | | | |

Cutters having straight teeth, nicked teeth, or dimensions other than listed, are special and subject to special prices.

Coarse Tooth Plain Milling Cutters of carbon steel are special.

COARSE TOOTH SIDE MILLING CUTTERS

No. 1808—High Speed Steel

Cutters with wide spaced teeth have a marked advantage on many classes of work over the usual types, being capable of removing a considerably greater quantity of metal in a given time without distressing the cutter or overloading the machine.



| Diam., Inches | Width Face, Inches | Diam., Hole, Inches | Each | Diam., Inches | Width Face, Inches | Diam., Hole, Inches | Each |
|------------------|--------------------------|---------------------------|--------|------------------|--------------------------|---------------------------|---------|
| 3 | 3/8 | 1 1/4 | \$6.65 | 4 | 3/8 | 1 1/2 | \$17.30 |
| 3 | 1/2 | 1 1/4 | 7.15 | 5 | 3/4 | 1 1/4 | 17.10 |
| 3 | 3/4 | 1 1/4 | 7.65 | 5 | 1 | 1 1/2 | 17.10 |
| 4 | 1/2 | 1 1/4 | 11.90 | 5 | 3/4 | 1 1/4 | 18.75 |
| 4 | 3/4 | 1 1/4 | 11.90 | 5 | 1 | 1 1/2 | 18.75 |
| 4 | 1 | 1 1/4 | 13.15 | 5 | 1 1/4 | 1 1/2 | 20.20 |
| 4 | 1 1/4 | 1 1/2 | 13.15 | 6 | 3/4 | 1 1/2 | 22.25 |
| 4 | 3/4 | 1 1/4 | 14.40 | 6 | 1 | 1 1/2 | 26.40 |
| 4 | 1 | 1 1/2 | 14.40 | 8 | 1 | 1 1/2 | 55.20 |
| 4 | 3/4 | 1 1/4 | 17.30 | | | | |

CORNER ROUNDING CUTTERS

MORSE

No. 868—Carbon Steel

No. 1868—High Speed Steel

These Cutters have side and radial clearance, and can be sharpened by grinding without changing their form.

In ordering Single Cutters, state whether Right or Left Hand are wanted.

Cutters having dimensions other than listed are special and subject to special prices.

Single.
Left Hand.Single.
Right Hand.

| Radius of Circle, Inches | Diam. of Cutter, Inches | Diam. of Hole, Inches | Each | |
|--------------------------|-------------------------|-----------------------|--------------|------------------|
| | | | Carbon Steel | High Speed Steel |
| 1/8 | 2 | 3/8 | \$3.50 | \$ 5.30 |
| 1/4 | 2 1/4 | 3/8 | 4.00 | 6.40 |
| 3/8 | 3 | 1 | 5.60 | 9.65 |
| 1/2 | 3 1/4 | 1 | 7.15 | 12.75 |
| 5/8 | 3 1/2 | 1 | 8.70 | 16.10 |

CONCAVE AND CONVEX CUTTERS

MORSE

For Milling Half Circles

These cutters have formed teeth and can be sharpened without changing their outline.

Cutters having dimensions other than listed are special and subject to special prices.



Convex.



Concave.

| Diam. of Circle, Inches | Diam. of Cutter, Inches | Diam. of Hole, Inches | Each | | | |
|-------------------------|-------------------------|-----------------------|----------------------|---------------------------|----------------------|---------------------------|
| | | | Convex | | Concave | |
| | | | No. 865 Carbon Steel | No. 1865 High Speed Steel | No. 866 Carbon Steel | No. 1866 High Speed Steel |
| 1/8 | 2 | 3/8 | \$2.30 | \$ 3.40 | \$3.50 | \$ 5.30 |
| 1/4 | 2 | 3/8 | 2.70 | 4.00 | 3.70 | 5.75 |
| 3/8 | 2 1/4 | 3/8 | 3.50 | 5.30 | 3.80 | 6.00 |
| 1/2 | 2 1/4 | 3/8 | 3.75 | 5.90 | 4.20 | 6.70 |
| 5/8 | 2 1/4 | 3/8 | 3.85 | 6.10 | 4.40 | 7.15 |
| 3/4 | 2 1/4 | 3/8 | 4.00 | 6.40 | 4.70 | 7.75 |
| 7/8 | 2 1/4 | 3/8 | 4.20 | 6.70 | 5.00 | 8.30 |
| 1 | 2 3/4 | 1 | 5.15 | 8.75 | 6.40 | 11.25 |
| | 3 | 1 | 6.10 | 10.65 | 7.50 | 13.65 |
| | 3 1/4 | 1 | 7.15 | 12.75 | 8.60 | 16.00 |
| | 3 1/2 | 1 | 7.70 | 13.90 | 9.10 | 17.50 |

ANGULAR CUTTERS

MORSE

No. 850—Carbon Steel

No. 1850—High Speed Steel

Right and Left Hand.

45 and 60 Degree Angle in Stock.

Angular Cutters are for cutting the teeth of Cutters and Mills and the side teeth of Heading or Straddle Mills, but are not adapted for Spiral Milling.

When ordering, state whether Cutter is to be Right or Left Hand. Illustration shows Right Hand Cutter.

Cutters having dimensions other than listed are special and subject to special prices.

| Diameter, Inches | Thickness, Inches | Diameter of Hole, Inches | Each | |
|------------------|-------------------|--------------------------|--------------|------------------|
| | | | Carbon Steel | High Speed Steel |
| 2 1/2 | 1 1/2 | 3/8 | \$3.40 | \$5.80 |
| 2 3/4 | 1 1/2 | 1 | 3.60 | 6.40 |
| 3 | 1 1/2 | 1 1/4 | 4.30 | 7.65 |



ANGULAR CUTTERS

MORSE, WITH THREADED HOLE

No. 851—Carbon Steel

No. 1851—High Speed Steel

Right and Left Hand, 60 Degree Angle.

In ordering these cutters, in addition to specifying right or left hand, advise position on arbor; that is, whether small or large diameter of cutter is to be placed next to shoulder on arbor.

Cutters having dimensions other than listed are special and subject to special prices.



| Diam., Inches | Thick-ness, Inches | Diam. of Hole, Inches | Thread | Each | |
|---------------|--------------------|-----------------------|--------|--------------|------------------|
| | | | | Carbon Steel | High Speed Steel |
| 1 1/4 | 3/8 | 3/8 | 20 | \$3.00 | \$4.75 |
| 1 3/8 | 3/8 | 1/2 | 16 | 3.60 | 5.80 |

DOUBLE ANGLE CUTTERS

MORSE

No. 854—Carbon Steel

No. 1854—High Speed Steel



| Diam., Inches | Thick-ness, Inches | Diam. of Hole, Inches | Each | |
|---------------|--------------------|-----------------------|--------------|------------------|
| | | | Carbon Steel | High Speed Steel |
| 2 1/2 | 1 1/2 | 3/8 | \$3.40 | \$5.80 |
| 2 3/4 | 1 1/2 | 1 | 3.60 | 6.40 |
| 3 | 1 1/2 | 1 1/4 | 4.30 | 7.65 |

These Cutters are carried in stock as illustrated with the included angle of either 45 or 60 degrees.

KEY SEAT CUTTERS

MORSE

For Woodruff Keys

Furnished regularly Right Hand only. Left Hand and Special Dimension Cutters are subject to special prices.



No. 917—Carbon Steel

No. 1917—High Speed Steel

| Cut-ter, No. | Diam. of Cutter, Inches | Thick-ness, Inches | Length, Inches | Diam. of Shank, Inches | Each | |
|--------------|-------------------------|--------------------|----------------|------------------------|--------------|------------------|
| | | | | | Carbon Steel | High Speed Steel |
| 1 | 1/2 | 3/8 | 2 1/8 | 1/2 | \$1.20 | ..... |
| 2 | 1/2 | 3/8 | 2 3/8 | 1/2 | 1.20 | ..... |
| 3 | 1/2 | 3/8 | 2 1/2 | 1/2 | 1.20 | \$1.80 |
| 4 | 5/8 | 3/8 | 2 3/8 | 1/2 | 1.35 | 2.10 |
| 5 | 5/8 | 3/8 | 2 1/2 | 1/2 | 1.35 | 2.10 |
| 6 | 5/8 | 3/8 | 2 3/8 | 1/2 | 1.35 | 2.10 |
| 7 | 3/4 | 3/8 | 2 1/2 | 1/2 | 1.60 | 2.50 |
| 8 | 3/4 | 3/8 | 2 3/8 | 1/2 | 1.60 | 2.50 |
| 9 | 3/4 | 3/8 | 2 1/2 | 1/2 | 1.60 | 2.50 |
| 10 | 3/4 | 3/8 | 2 3/8 | 1/2 | 1.75 | 2.75 |
| 11 | 3/4 | 3/8 | 2 1/2 | 1/2 | 1.75 | 2.75 |
| 12 | 3/4 | 3/8 | 2 3/8 | 1/2 | 1.75 | 2.75 |
| A | 3/4 | 3/8 | 2 1/4 | 1/2 | 1.75 | 2.75 |
| 13 | 1 | 3/8 | 2 3/8 | 1/2 | 2.15 | 3.60 |
| 14 | 1 | 3/8 | 2 1/2 | 1/2 | 2.15 | 3.60 |
| 15 | 1 | 3/8 | 2 3/8 | 1/2 | 2.15 | 3.60 |
| B | 1 | 3/8 | 2 1/2 | 1/2 | 2.15 | 3.60 |
| 16 | 1 1/8 | 3/8 | 2 3/8 | 1/2 | 2.30 | 4.00 |
| 17 | 1 1/8 | 3/8 | 2 1/2 | 1/2 | 2.30 | 4.00 |
| 18 | 1 1/8 | 3/8 | 2 3/8 | 1/2 | 2.30 | 4.00 |
| C | 1 1/8 | 3/8 | 2 1/2 | 1/2 | 2.30 | 4.00 |
| 19 | 1 1/4 | 3/8 | 2 3/8 | 1/2 | 2.50 | 4.50 |
| 20 | 1 1/4 | 3/8 | 2 1/2 | 1/2 | 2.50 | 4.50 |
| 21 | 1 1/4 | 3/8 | 2 3/8 | 1/2 | 2.50 | 4.50 |
| D | 1 1/4 | 3/8 | 2 1/2 | 1/2 | 2.50 | 4.50 |
| E | 1 1/4 | 3/8 | 2 3/8 | 1/2 | 2.50 | 4.50 |
| 22 | 1 3/8 | 3/8 | 2 1/2 | 1/2 | 2.65 | 5.00 |
| 23 | 1 3/8 | 3/8 | 2 3/8 | 1/2 | 2.65 | 5.00 |
| F | 1 3/8 | 3/8 | 2 1/2 | 1/2 | 2.65 | 5.00 |
| 24 | 1 1/2 | 3/8 | 2 3/8 | 1/2 | 2.85 | 5.30 |
| 25 | 1 1/2 | 3/8 | 2 1/2 | 1/2 | 2.85 | 5.30 |
| G | 1 1/2 | 3/8 | 2 3/8 | 1/2 | 2.85 | 5.30 |

SLOTING END MILLS

MORSE TWO LIPPED



With Brown & Sharpe Taper Shanks

No. 911—Carbon Steel

No. 1911—High Speed Steel

When ordering state if Right or Left Hand are wanted.

| Diam., Inches | Number of Shank | Length, Inches | Length Flutes, Inches | Each | |
|------------------|--------------------|-------------------|-----------------------------|-----------------|------------------------|
| | | | | Carbon Steel | High Speed Steel |
| 1/4 | 4 | 2 | 3/8 | \$1.10 | \$1.65 |
| 1/4 | 5 | 2 1/2 | 3/8 | 1.80 | 2.80 |
| 1/4 | 7 | 4 3/8 | 3/8 | 2.50 | 4.15 |
| 5/16 | 5 | 2 1/2 | 3/8 | 1.80 | 2.80 |
| 5/16 | 7 | 4 1/2 | 3/8 | 2.50 | 4.15 |
| 3/8 | 7 | 4 1/2 | 1/2 | 2.70 | 4.60 |
| 3/8 | 7 | 4 3/4 | 1/2 | 2.70 | 4.60 |
| 1/2 | 7 | 4 3/4 | 1/2 | 2.70 | 4.60 |
| 1/2 | 7 | 4 3/4 | 1/2 | 2.70 | 4.60 |
| 5/8 | 7 | 4 1/2 | 1 1/8 | 2.70 | 4.60 |
| 5/8 | 7 | 5 1/2 | 1 1/8 | 2.70 | 4.60 |
| 3/4 | 7 | 5 1/2 | 1 1/8 | 2.90 | 5.30 |
| 3/4 | 7 | 5 3/4 | 1 1/8 | 2.90 | 5.30 |
| 7/8 | 9 | 6 3/4 | 1 1/2 | 3.60 | 7.40 |
| 1 | 9 | 6 3/4 | 1 1/2 | 3.60 | 7.40 |
| 1 1/8 | 9 | 6 1/2 | 1 3/8 | 3.85 | 8.90 |
| 1 1/2 | 9 | 7 1/2 | 2 1/4 | 4.40 | 10.40 |

SHELL END MILLS

MORSE SPIRAL FLUTE



Left Hand.

No. 871—Carbon Steel

No. 1871—High Speed Steel

Shell End Mills are regularly furnished either right or left hand and with spiral teeth.

Shell End Mills with straight teeth or those having dimensions other than listed are special and subject to special prices.

SHELL END MILLS

MORSE COARSE TOOTH

No. 1801—High Speed Steel



Coarse Tooth Shell End Mills are regularly furnished of High Speed Steel, either right or left hand, and with Spiral Teeth. Coarse Tooth Shell End Mills with straight teeth or having dimensions other than listed are special and subject to special prices. Carbon Steel Coarse Tooth Shell End Mills are special.

| Diameter, Inches | Length of Cut, Inches | Diameter of Hole, Inches | High Speed Steel, Each |
|---------------------|--------------------------|--------------------------------|------------------------------|
| 1 1/4 | 1 1/4 | 1/2 | \$6.00 |
| 1 3/8 | 1 1/4 | 1/2 | 6.25 |
| 1 1/2 | 1 1/4 | 1/2 | 6.50 |
| 1 5/8 | 1 3/4 | 3/4 | 8.25 |
| 1 3/4 | 1 3/4 | 3/4 | 8.65 |
| 1 7/8 | 1 3/4 | 3/4 | 9.00 |
| 2 | 1 3/4 | 3/4 | 9.65 |
| 2 1/8 | 2 1/4 | 1 | 10.30 |
| 2 1/4 | 2 1/4 | 1 | 11.75 |
| 2 3/8 | 2 1/4 | 1 | 12.90 |
| 2 1/2 | 2 1/4 | 1 | 12.90 |
| 2 3/4 | 2 1/4 | 1 | 14.60 |
| 3 | 2 1/4 | 1 | 16.65 |

HOLLOW MILLS

MORSE



No. 886—Carbon Steel

No. 1886—High Speed Steel

| Diam. Hole, Inch. | Diam., Inches | Lgth., Inches | Each | | Diam. Hole, Inch. | Diam., Inches | Lgth., Inches | Each | |
|-------------------------|------------------|------------------|-----------------|------------------------|-------------------------|------------------|------------------|-----------------|------------------------|
| | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel |
| 1/2 | 5/8 | 1 1/2 | \$1.35 | \$3.60 | 3/8 | 1 | 1 3/4 | \$2.70 | \$4.25 |
| 1/2 | 5/8 | 1 1/2 | 1.35 | 3.60 | 1/2 | 1 | 1 3/4 | 2.70 | 4.25 |
| 3/2 | 5/8 | 1 1/2 | 1.35 | 3.60 | 1/2 | 1 1/4 | 2 | 3.00 | 5.55 |
| 3/2 | 5/8 | 1 1/2 | 1.35 | 3.60 | 5/8 | 1 1/4 | 2 | 3.35 | 6.85 |
| 1/4 | 5/8 | 1 1/2 | 1.35 | 3.60 | 1/2 | 1 1/2 | 2 | 3.35 | 6.85 |
| 3/2 | 3/4 | 1 1/2 | 2.00 | 3.90 | 3/4 | 1 3/4 | 2 1/4 | 4.00 | 8.45 |
| 1/2 | 3/4 | 1 1/2 | 2.00 | 3.90 | 1 | 1 3/4 | 2 1/4 | 4.00 | 8.45 |

The holes of these Mills are carefully ground to size, and have a proper relief.

ADJUSTABLE HOLLOW MILLS

MORSE



No. 885—Carbon Steel

No. 1885—High Speed Steel

| Diameter, Inches | Length Cut, Inches | Diameter Hole, Inches | Each | |
|---------------------|-----------------------|-----------------------------|-----------------|------------------------|
| | | | Carbon Steel | High Speed Steel |
| 1 1/4 | 1 1/4 | 1/2 | \$3.90 | \$6.00 |
| 1 3/8 | 1 1/4 | 1/2 | 4.00 | 6.25 |
| 1 1/2 | 1 1/4 | 1/2 | 4.10 | 6.50 |
| 1 5/8 | 1 3/4 | 3/4 | 5.00 | 8.25 |
| 1 3/4 | 1 3/4 | 3/4 | 5.20 | 8.65 |
| 1 7/8 | 1 3/4 | 3/4 | 5.30 | 9.00 |
| 2 | 1 3/4 | 3/4 | 5.50 | 9.65 |
| 2 1/8 | 1 3/4 | 3/4 | 5.60 | 10.30 |
| 2 1/4 | 2 1/4 | 1 | 6.20 | 11.75 |
| 2 3/8 | 2 1/4 | 1 | 6.50 | 12.90 |
| 2 1/2 | 2 1/4 | 1 | 6.50 | 12.90 |
| 2 3/4 | 2 1/4 | 1 | 7.15 | 14.60 |
| 3 | 2 1/4 | 1 | 8.00 | 16.65 |

| Diam. Hole, Inch. | Diam., Inches | Lgth., Inches | Each | | Diam. Hole, Inch. | Diam., Inches | Lgth., Inches | Each | |
|-------------------------|------------------|------------------|-----------------|------------------------|-------------------------|------------------|------------------|-----------------|------------------------|
| | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel |
| 1/2 | 5/8 | 1 1/2 | \$1.85 | \$4.25 | 1/2 | 1 | 2 1/4 | \$3.50 | \$5.20 |
| 1/2 | 5/8 | 1 1/2 | 1.85 | 4.25 | 1/2 | 1 | 2 1/4 | 3.50 | 5.20 |
| 3/2 | 5/8 | 1 1/2 | 1.85 | 4.25 | 1/2 | 1 1/4 | 2 1/2 | 4.00 | 6.85 |
| 3/2 | 5/8 | 1 1/2 | 1.85 | 4.25 | 5/8 | 1 1/4 | 2 1/2 | 4.60 | 8.45 |
| 1/4 | 5/8 | 1 1/2 | 1.85 | 4.25 | 3/4 | 1 1/4 | 2 1/2 | 4.60 | 8.45 |
| 3/2 | 3/4 | 2 | 2.60 | 4.70 | 3/4 | 1 1/2 | 2 3/4 | 5.50 | 10.40 |
| 1/2 | 3/4 | 2 | 2.60 | 4.70 | 1 | 1 1/2 | 2 3/4 | 5.50 | 10.40 |
| 1/2 | 3/4 | 2 | 3.50 | 5.20 | 1 | 1 1/2 | 2 3/4 | 5.50 | 10.40 |

Forcing the Ring on the Mill will correct any slight wear.

SCREW SLOTTING CUTTERS



MORSE

No. 845—Carbon Steel

No. 1845—High Speed Steel

Fine pitch of teeth, adapted to the slotting of screw heads and similar work. Not ground on the sides.

| Number of Gauge | Thickness in Decimals of 1 Inch | Diameter of Cutter Inches | Diameter of Hole, Inches | Each | |
|-----------------|---------------------------------|---------------------------|--------------------------|--------------|------------------|
| | | | | Carbon Steel | High Speed Steel |
| 5 | .182 | 2 3/4 | 1 | \$0.90 | ..... |
| 6 | .162 | 2 3/4 | 1 | .75 | \$2.75 |
| 7 | .144 | 2 3/4 | 1 | .65 | 2.50 |
| 8 | .128 | 2 3/4 | 3/4, 1 | .55 | 2.25 |
| 9 | .114 | 2 3/4 | 3/4, 1 | .50 | 2.00 |
| 10 | .102 | 2 3/4 | 3/4, 1 | .45 | 1.80 |
| 11 | .091 | 2 3/4 | 3/4, 1 | .40 | 1.60 |
| 12 | .081 | 2 3/4 | 3/4, 1 | .35 | 1.40 |
| 13 | .072 | 2 3/4 | 3/4, 1 | .35 | 1.30 |
| 14 | .064 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .35 | 1.20 |
| 15 | .057 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .30 | 1.10 |
| 16 | .051 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .30 | 1.00 |
| 17 | .045 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .25 | 1.00 |
| 18 | .040 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .25 | 1.00 |
| 19 | .035 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .25 | 1.00 |
| 20 | .032 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .25 | 1.00 |
| 21 | .028 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .20 | 1.00 |
| 22 | .025 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .20 | 1.00 |
| 23 | .023 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .20 | 1.00 |
| 24 | .020 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .20 | 1.00 |
| 25 | .018 | 2 3/4 | 1/2, 5/8, 3/4, 1 | .20 | ..... |
| 26 | .016 | 2 3/4 | 3/4, 1 | .20 | ..... |
| 27 | .014 | 2 3/4 | 3/4, 1 | .20 | ..... |
| 28 | .012 | 2 3/4 | 3/4, 1 | .20 | ..... |
| 30 | .010 | 2 3/4 | 3/4, 1 | .20 | ..... |
| 32 | .008 | 2 3/4 | 3/4, 1 | .20 | ..... |
| 34 | .006 | 2 3/4 | 3/4, 1 | .20 | ..... |
| 10 | .102 | 2 1/4 | 5/8 | .40 | ..... |
| 11 | .091 | 2 1/4 | 5/8 | .35 | ..... |
| 12 | .081 | 2 1/4 | 5/8 | .30 | ..... |
| 13 | .072 | 2 1/4 | 5/8 | .25 | ..... |
| 14 | .064 | 2 1/4 | 5/8 | .25 | ..... |
| 15 | .057 | 2 1/4 | 5/8 | .20 | ..... |
| 16 | .051 | 2 1/4 | 5/8 | .20 | ..... |
| 17 | .045 | 2 1/4 | 5/8 | .20 | ..... |
| 18 | .040 | 2 1/4 | 5/8 | .20 | ..... |
| 19 | .035 | 2 1/4 | 5/8 | .20 | ..... |
| 20 | .032 | 2 1/4 | 5/8 | .20 | ..... |
| 21 | .028 | 2 1/4 | 5/8 | .20 | ..... |
| 22 | .025 | 2 1/4 | 5/8 | .20 | ..... |
| 23 | .023 | 2 1/4 | 5/8 | .20 | ..... |
| 24 | .020 | 2 1/4 | 5/8 | .20 | ..... |
| 25 | .018 | 2 1/4 | 5/8 | .20 | ..... |
| 26 | .016 | 2 1/4 | 5/8 | .20 | ..... |
| 27 | .014 | 2 1/4 | 5/8 | .20 | ..... |
| 28 | .012 | 2 1/4 | 5/8 | .20 | ..... |
| 30 | .010 | 2 1/4 | 5/8 | .20 | ..... |
| 32 | .008 | 2 1/4 | 5/8 | .20 | ..... |
| 34 | .006 | 2 1/4 | 5/8 | .20 | ..... |
| 14 | .064 | 1 3/4 | 5/8 | .20 | ..... |
| 15 | .057 | 1 3/4 | 5/8 | .20 | ..... |
| 16 | .051 | 1 3/4 | 5/8 | .20 | ..... |
| 17 | .045 | 1 3/4 | 5/8 | .20 | ..... |
| 18 | .040 | 1 3/4 | 5/8 | .20 | ..... |
| 19 | .035 | 1 3/4 | 5/8 | .20 | ..... |
| 20 | .032 | 1 3/4 | 5/8 | .20 | ..... |
| 21 | .028 | 1 3/4 | 5/8 | .20 | ..... |
| 22 | .025 | 1 3/4 | 5/8 | .20 | ..... |
| 23 | .023 | 1 3/4 | 5/8 | .20 | ..... |
| 24 | .020 | 1 3/4 | 1/2, 5/8 | .15 | ..... |
| 25 | .018 | 1 3/4 | 1/2, 5/8 | .15 | ..... |
| 26 | .016 | 1 3/4 | 1/2, 5/8 | .15 | ..... |
| 27 | .014 | 1 3/4 | 1/2, 5/8 | .15 | ..... |
| 28 | .012 | 1 3/4 | 1/2, 5/8 | .15 | ..... |
| 30 | .010 | 1 3/4 | 1/2, 5/8 | .15 | ..... |
| 32 | .008 | 1 3/4 | 1/2, 5/8 | .15 | ..... |
| 34 | .006 | 1 3/4 | 1/2, 5/8 | .15 | ..... |

Note—High Speed Steel Cutters furnished only with 1 in. hole.

METAL SLITTING SAWS

MORSE

No. 841—Carbon Steel

No. 1841—High Speed Steel



These saws have holes ground to standard size, and the sides are ground with a proper clearance to allow the cutting of deep slots.

| Dia. In. | Width Face, In. | Diam. Hole, In. | Each | | Dia. In. | Width Face, In. | Diam. Hole, In. | Each | |
|----------|-----------------|-----------------|--------------|------------------|----------|-----------------|-----------------|--------------|------------------|
| | | | Carbon Steel | High Speed Steel | | | | Carbon Steel | High Speed Steel |
| 2 1/2 | 1 1/2 | 3/8 | \$1.30 | \$3.15 | 4 | 3/2 | 1 | \$2.10 | \$4.65 |
| 2 1/2 | 1 1/2 | 7/8 | 1.20 | 3.00 | 4 | 1 1/2 | 1 | 2.10 | 4.65 |
| 2 1/2 | 1 1/2 | 1 1/8 | 1.15 | 3.00 | 5 | 1 1/2 | 1 | 2.30 | 5.15 |
| 2 1/2 | 1 1/2 | 1 1/4 | 1.15 | 3.00 | 5 | 1 1/2 | 1 | 2.00 | 4.70 |
| 2 1/2 | 1 1/2 | 1 1/2 | 1.15 | 3.00 | 5 | 1 1/2 | 1-1 1/4 | 2.00 | 5.20 |
| 2 1/2 | 1 1/2 | 1 3/4 | 1.65 | 3.25 | 5 | 1 1/2 | 1 | 2.90 | 7.40 |
| 3 | 1 3/4 | 1 | 1.60 | 3.75 | 5 | 1 3/4 | 1 | 2.90 | 7.40 |
| 3 | 1 3/4 | 1 | 1.50 | 3.25 | 6 | 1 3/4 | 1 | 5.10 | 9.40 |
| 3 | 1 3/4 | 1 | 1.30 | 3.15 | 6 | 1 3/4 | 1 | 3.85 | 7.65 |
| 3 | 1 3/4 | 1 | 1.30 | 3.15 | 6 | 1 3/4 | 1-1 1/4 | 3.50 | 7.70 |
| 3 | 1 3/4 | 1 | 1.30 | 3.15 | 6 | 1 3/4 | 1-1 1/4 | 4.50 | 10.20 |
| 3 | 1 3/4 | 1 | 1.75 | 3.60 | 7 | 1 3/4 | 1 | 9.50 | 16.00 |
| 4 | 1 3/4 | 1 | 2.85 | 5.75 | 7 | 1 3/4 | 1 | 5.70 | 10.75 |
| 4 | 1 3/4 | 1 | 1.85 | 4.00 | 7 | 1 3/4 | 1-1 1/4 | 4.85 | 10.80 |
| 4 | 1 3/4 | 1 | 1.60 | 3.75 | 7 | 1 3/4 | 1 1/4 | 6.50 | 14.70 |
| 4 | 1 3/4 | 1 | 1.60 | 3.60 | 8 | 1 3/4 | 1 1/4 | 7.30 | 15.00 |
| 4 | 1 3/4 | 1 | 1.60 | 3.60 | 8 | 1 3/4 | 1 1/4 | 8.90 | 18.90 |

SCREW SLOTTING CUTTER ARBORS

MORSE



No. 536

| Number | Fitting Holes, Inches | Length, Inches | Each |
|--------|-----------------------|----------------|--------|
| 1 | 3/8 | 6 | \$6.75 |
| 2 | 1/2 | 6 | 6.75 |
| 3 | 5/8 | 6 | 6.75 |
| 4 | 3/4 | 6 | 6.75 |
| 5 | 7/8 | 6 | 6.75 |
| 6 | 1 | 6 | 6.75 |

SHELL END MILL ARBORS

MORSE TAPER SHANK



No. 510

State whether Arbors are desired for Right or Left Hand Mills. These Arbors fit Shell End Mills shown on page 30.

| Number | Fitting Sizes, Inches | Morse Taper Shank, Number | Each |
|--------|-----------------------|---------------------------|--------|
| 1 | 1 1/4 to 1 1/2 | 3 | \$5.00 |
| 2 | 1 1/2 to 2 1/2 | 4 | 5.35 |
| 3 | 2 1/4 to 3 | 4 | 5.35 |

INVOLUTE GEAR CUTTERS

MORSE

For Teeth of Gear Wheels

These cutters can be sharpened by grinding the faces of the teeth. To preserve the form of the cutter care must be used on grinding to keep the face of each tooth radial.

To cut a set of interchangeable wheels with theoretical accuracy, as many cutters would be required as there are different wheels in the set, for the reason that, strictly speaking, the shape of the teeth should vary with every change in the number of teeth in the wheels. As this change of form is slight and becomes less with each increase in the number of teeth, it has been found that a set of wheels ranging from a pinion to twelve teeth to a rack can be cut with sufficient accuracy for most purposes by the use of eight cutters, as follows:

No. 1 will cut wheels from 135 teeth to a rack. No. 5 will cut wheels from 21 teeth to 25 teeth.
No. 2 will cut wheels from 55 teeth to 134 teeth. No. 6 will cut wheels from 17 teeth to 20 teeth.
No. 3 will cut wheels from 35 teeth to 54 teeth. No. 7 will cut wheels from 14 teeth to 16 teeth.
No. 4 will cut wheels from 26 teeth to 34 teeth. No. 8 will cut wheels from 12 teeth to 13 teeth.

When greater accuracy in the shape of the teeth is desired, we are prepared to furnish to order, either cutters specially adapted to any given number of teeth, or for use with the regular set above, cutters in half numbers as follows:



| No. of Cutter | Range | No. of Cutter | Range |
|---------------|-----------------|---------------|----------------|
| 1 1/2 | 80 to 134 teeth | 5 1/2 | 19 to 20 teeth |
| 2 1/2 | 42 to 54 teeth | 6 1/2 | 15 to 16 teeth |
| 3 1/2 | 30 to 34 teeth | 7 1/2 | 13 teeth |
| 4 1/2 | 23 to 25 teeth | | |

Each cutter is marked with its number, also the diametral pitch and number of Teeth for which it is adapted. In ordering, give number of cutter and diametral pitch required.

REGULAR

No. 940 Carbon Steel No. 1940—High Speed Steel

| Pitch | Diameter of Cutter, Inches | | Hole, Inches | Each | |
|-------|----------------------------|------------------|--------------|--------------|------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 1 | 8 1/2 | 8 1/2 | 2 | \$57.00 | \$135.65 |
| 1 1/4 | 7 3/4 | 7 3/4 | 2 | 48.00 | 116.65 |
| 1 1/2 | 7 | 7 | 1 3/4 | 40.50 | 86.90 |
| 1 3/4 | 6 1/2 | 6 1/2 | 1 3/4 | 30.35 | 63.75 |
| 2 | 5 3/4 | 5 3/4 | 1 1/2 | 20.25 | 43.75 |
| 2 1/2 | 5 1/2 | 5 1/2 | 1 1/2 | 13.90 | 33.15 |
| 3 | 4 3/4 | 4 3/4 | 1 1/4 | 10.10 | 22.50 |
| 4 | 3 3/4 | 3 3/4 | 1 1/4 | 7.60 | 15.35 |
| 5 | 3 3/8 | 3 3/8 | 1 1/4 | 6.90 | 12.50 |
| 6 | 3 | 3 1/8 | 1 | 5.50 | 10.00 |
| 7 | 2 7/8 | 2 7/8 | 1 | 5.15 | 8.75 |
| 8 | 2 7/8 | 2 7/8 | 1 | 5.00 | 8.50 |
| 9 | 2 3/4 | 2 3/4 | 1 | 4.70 | 7.65 |
| 10 | 2 1/4 | 2 3/8 | 7/8 | 4.50 | 7.10 |
| 11 | 2 1/4 | 2 3/8 | 7/8 | 4.20 | 6.65 |
| 12 | 2 1/8 | 2 1/4 | 7/8 | 3.90 | 6.00 |
| 14 | 2 | 2 1/8 | 7/8 | 3.40 | 5.65 |
| 16 | 2 | 2 1/8 | 7/8 | 3.20 | 5.25 |
| 18 | 1 7/8 | 2 | 7/8 | 3.00 | 4.70 |
| 20 | 1 7/8 | 2 | 7/8 | 2.90 | 4.60 |
| 22 | 1 7/8 | 2 | 7/8 | 2.80 | 4.50 |
| 24 | 1 3/4 | 1 3/4 | 7/8 | 2.65 | 4.25 |
| 26 | 1 3/4 | 1 3/4 | 7/8 | 2.60 | 4.20 |
| 28 | 1 3/4 | 1 3/4 | 7/8 | 2.25 | 3.75 |
| 30 | 1 3/4 | 1 3/4 | 7/8 | 2.25 | 3.75 |
| 32 | 1 3/4 | 1 3/4 | 7/8 | 2.25 | 3.75 |
| 36 | 1 3/4 | 1 3/4 | 7/8 | 2.25 | 3.75 |
| 40 | 1 3/4 | 1 3/4 | 7/8 | 2.25 | 3.75 |
| 48 | 1 3/4 | 1 3/4 | 7/8 | 2.25 | 3.75 |

FOR USE ON AUTOMATIC GEAR CUTTING MACHINES

No. 942—Carbon Steel No. 1942—High Speed Steel

With 1 inch Hole.

| Diametral Pitch | Diameter of Cutter, Inches | | Each | |
|-----------------|----------------------------|------------------|--------------|------------------|
| | Carbon Steel | High Speed Steel | Carbon Steel | High Speed Steel |
| 4 | 3 1/2 | 3 5/8 | \$7.00 | \$13.65 |
| 5 | 3 1/4 | 3 3/8 | 6.00 | 11.15 |
| 6 | 3 | 3 1/8 | 5.50 | 10.00 |
| 7 | 2 7/8 | 2 7/8 | 5.15 | 8.75 |
| 8 | 2 7/8 | 2 7/8 | 5.00 | 8.50 |
| 9 | 2 3/4 | 2 3/4 | 4.70 | 7.65 |
| 10 | 2 3/4 | 2 3/4 | 4.60 | 7.30 |
| 11 | 2 5/8 | 2 5/8 | 4.50 | 7.10 |
| 12 | 2 5/8 | 2 5/8 | 4.25 | 6.70 |
| 14 | 2 1/2 | 2 1/2 | 3.75 | 6.00 |
| 16 | 2 1/2 | 2 1/2 | 3.50 | 5.65 |
| 18 | 2 3/8 | 2 3/8 | 3.35 | 5.35 |
| 20 | 2 3/8 | 2 3/8 | 3.25 | 5.00 |
| 22 | 2 1/4 | 2 1/4 | 3.10 | 4.80 |
| 24 | 2 1/4 | 2 1/4 | 3.00 | 4.70 |

FOR USE ON AUTOMATIC GEAR CUTTING MACHINES

No. 943—Carbon Steel No. 1943—High Speed Steel

With 1 1/4 inch Hole.

| Diametral Pitch | Diameter of Cutter, Inches | | Each | |
|-----------------|----------------------------|------------------|--------------|------------------|
| | Carbon Steel | High Speed Steel | Carbon Steel | High Speed Steel |
| 3 | 4 3/8 | 4 3/4 | \$10.10 | \$22.50 |
| 4 | 3 7/8 | 4 1/4 | 7.60 | 15.35 |
| 5 | 3 5/8 | 3 3/4 | 6.90 | 12.50 |
| 6 | 3 1/2 | 3 1/2 | 6.00 | 10.50 |
| 7 | 3 3/8 | 3 3/8 | 5.90 | 10.00 |
| 8 | 3 1/4 | 3 1/4 | 5.60 | 9.40 |
| 9 | 3 1/8 | 3 1/8 | 5.35 | 8.75 |
| 10 | 3 | 3 | 5.00 | 8.10 |
| 12 | 2 7/8 | 2 7/8 | 4.60 | 7.40 |

FOR USE ON AUTOMATIC GEAR CUTTING MACHINES

No. 944—Carbon Steel No. 1944—High Speed Steel

With 1 1/2 inch Hole.

| Diametral Pitch | Diameter of Cutter, Inches | | Each | |
|-----------------|----------------------------|------------------|--------------|------------------|
| | Carbon Steel | High Speed Steel | Carbon Steel | High Speed Steel |
| 2 | 5 3/4 | 5 3/4 | \$20.25 | \$43.75 |
| 2 1/2 | 5 1/2 | 5 3/4 | 13.90 | 33.15 |
| 3 | 5 | 5 1/4 | 11.40 | 25.40 |
| 4 | 4 1/4 | 4 1/2 | 7.90 | 16.90 |
| 5 | 4 | 4 1/4 | 7.00 | 14.10 |
| 6 | 3 3/4 | 3 3/8 | 6.70 | 12.20 |

FOR USE ON AUTOMATIC GEAR CUTTING MACHINES

No. 945—Carbon Steel No. 1945—High Speed Steel

With 1 3/4 inch Hole.

| Diametral Pitch | Diameter of Cutter, Inches | | Each | |
|-----------------|----------------------------|------------------|--------------|------------------|
| | Carbon Steel | High Speed Steel | Carbon Steel | High Speed Steel |
| 1 3/4 | 6 1/2 | 6 1/2 | \$30.35 | \$63.75 |
| 2 | 6 1/2 | 6 1/2 | 21.50 | 48.65 |
| 2 1/2 | 5 7/8 | 6 1/4 | 14.60 | 36.50 |
| 3 | 5 3/8 | 5 5/8 | 12.00 | 29.40 |
| 4 | 4 5/8 | 4 3/4 | 8.65 | 18.15 |
| 5 | 4 3/8 | 4 3/8 | 7.60 | 15.00 |
| 6 | 4 1/4 | 4 1/4 | 7.30 | 13.40 |

INVOLUTE GEAR CUTTERS

MORSE STOCKING

No. 930—Carbon Steel

No. 1930—High Speed Steel



By the use of these cutters, heavy cuts at fast speeds and coarse feeds can be taken because of the easier cutting action produced.

The greater part of the cutting is performed by the plain teeth, the stepped teeth projecting beyond the outline of the plain teeth only enough to break up the chips.

Because of the smooth and easy cutting action a minimum amount of power is consumed in driving the machine.

REGULAR

| Diam- etral Pitch | Diam. Cutter, Inches | | Diam. Hole, Inches | Each | |
|-------------------------|----------------------|------------------------|--------------------------|-----------------|------------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 1 | 8 1/2 | 8 1/2 | 2 | \$57.00 | \$135.65 |
| 1 1/4 | 7 3/4 | 7 3/4 | 2 | 48.00 | 116.65 |
| 1 1/2 | 7 | 7 | 1 3/4 | 40.50 | 86.90 |
| 1 3/4 | 6 1/2 | 6 1/2 | 1 3/4 | 30.35 | 63.75 |
| 2 | 5 3/4 | 5 3/4 | 1 1/2 | 20.25 | 43.75 |
| 2 1/2 | 5 1/2 | 5 3/4 | 1 1/2 | 13.90 | 33.15 |
| 3 | 4 3/4 | 4 3/4 | 1 1/4 | 10.10 | 22.50 |
| 4 | 3 3/4 | 4 1/4 | 1 1/4 | 7.69 | 15.35 |
| 5 | 3 3/8 | 3 3/4 | 1 1/4 | 6.90 | 12.50 |
| 6 | 3 | 3 1/8 | 1 | 5.50 | 10.00 |
| 7 | 2 7/8 | 2 7/8 | 1 | 5.15 | 8.75 |
| 8 | 2 3/4 | 2 7/8 | 1 | 5.00 | 8.50 |

FOR USE ON AUTOMATIC GEAR CUTTING MACHINES

With 1 Inch Hole

No. 931—Carbon Steel

No. 1931—High Speed Steel

| Diam. Pitch | Diam. Cutter, Inches | | | Each | |
|----------------|----------------------|---------------------|--|-----------------|---------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 4 | 3 1/2 | 3 3/8 | | \$7.00 | \$13.65 |
| 5 | 3 1/4 | 3 3/8 | | 6.00 | 11.15 |
| 6 | 3 | 3 1/8 | | 5.50 | 10.00 |
| 7 | 2 7/8 | 2 7/8 | | 5.15 | 8.75 |
| 8 | 2 3/4 | 2 7/8 | | 5.00 | 8.50 |

With 1 1/4 Inch Hole

No. 932—Carbon Steel

No. 1932—High Speed Steel

| | Diam. Cutter, Inches | | | Each | |
|---|----------------------|---------------------|--|-----------------|---------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 3 | 4 3/8 | 4 3/4 | | \$10.10 | \$22.50 |
| 4 | 3 7/8 | 4 1/4 | | 7.60 | 15.35 |
| 5 | 3 5/8 | 3 3/4 | | 6.90 | 12.50 |
| 6 | 3 1/2 | 3 3/2 | | 6.00 | 10.50 |
| 7 | 3 3/8 | 3 3/8 | | 5.90 | 10.00 |
| 8 | 3 1/4 | 3 1/4 | | 5.60 | 9.40 |

With 1 1/2 Inch Hole

No. 933—Carbon Steel

No. 1933—High Speed Steel

| | Diam. Cutter, Inches | | | Each | |
|-------|----------------------|---------------------|--|-----------------|---------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 2 | 5 3/4 | 5 3/4 | | \$20.25 | \$43.75 |
| 2 1/2 | 5 1/2 | 5 3/4 | | 13.90 | 33.15 |
| 3 | 5 | 5 1/4 | | 11.40 | 25.40 |
| 4 | 4 1/4 | 4 1/2 | | 7.90 | 16.90 |
| 5 | 4 | 4 1/4 | | 7.00 | 14.10 |
| 6 | 3 3/4 | 3 3/8 | | 6.70 | 12.20 |

With 1 3/4 Inch Hole

No. 934—Carbon Steel

No. 1934—High Speed Steel

| | Diam. Cutter, Inches | | | Each | |
|-------|----------------------|---------------------|--|-----------------|---------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 1 3/4 | 6 1/2 | 6 1/2 | | \$30.35 | \$63.75 |
| 2 | 6 1/2 | 6 1/2 | | 21.50 | 48.65 |
| 2 1/2 | 5 7/8 | 6 1/4 | | 14.60 | 36.50 |
| 3 | 5 3/8 | 5 5/8 | | 12.00 | 29.40 |
| 4 | 4 3/8 | 4 3/4 | | 8.65 | 18.15 |
| 5 | 4 3/8 | 4 3/4 | | 7.60 | 15.00 |
| 6 | 4 1/4 | 4 1/4 | | 7.30 | 13.40 |

Note—Cutters for Pitches not given in above Lists will be made to order.

INVOLUTE GEAR CUTTERS

MORSE LARGE DIAMETER

No. 941—Carbon Steel

No. 1941—High Speed Steel



Cutters with 1 1/2 inch hole have keyways 3/8 inch wide and 1/16 inch deep.

Cutters with 2 inch hole have keyway 1/2 inch wide and 1/8 inch deep.

When ordering these cutters be sure to state if 1 1/2 or 2 inch hole is desired.

Cutters for pitches not given in this list made to order.

| Diam- etral Pitch | Diam. Cutter, Inches | | Diam. Hole, Inches | Each | |
|-------------------------|----------------------|------------------------|--------------------------|-----------------|------------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 1 | 8 1/2 | 8 1/2 | 1 1/2-2 | \$57.00 | \$135.65 |
| 1 1/4 | 7 3/4 | 7 3/4 | 1 1/2-2 | 48.00 | 116.65 |
| 1 1/2 | 7 1/4 | 7 1/4 | 1 1/2-2 | 41.75 | 91.90 |
| 1 3/4 | 6 3/4 | 6 3/4 | 1 1/2-2 | 31.65 | 70.00 |
| 2 | 6 1/4 | 6 1/4 | 1 1/2-2 | 21.50 | 48.65 |
| 2 1/4 | 6 1/4 | 6 1/4 | 1 1/2-2 | 17.10 | 40.60 |
| 2 1/2 | 6 1/4 | 6 1/4 | 1 1/2-2 | 15.20 | 36.50 |
| 2 3/4 | 5 3/4 | 6 1/4 | 1 1/2-2 | 13.75 | 34.65 |
| 3 | 5 1/4 | 5 1/4 | 1 1/2-2 | 12.00 | 25.40 |
| 4 | 5 1/4 | 5 1/4 | 1 1/2-2 | 10.00 | 20.75 |
| 5 | 5 1/4 | 5 1/4 | 1 1/2-2 | 8.75 | 19.10 |
| 6 | 4 1/4 | 4 1/4 | 1 1/2-2 | 7.30 | 13.40 |
| 7 | 4 1/4 | 4 1/4 | 1 1/2-2 | 7.10 | 12.50 |
| 8 | 4 1/4 | 4 1/4 | 1 1/2-2 | 6.80 | 12.20 |
| 10 | 4 1/4 | 4 1/4 | 1 1/2-2 | 6.60 | 11.50 |
| 12 | 4 1/4 | 4 1/4 | 1 1/2-2 | 6.00 | 10.90 |
| 14 | 4 1/4 | 4 1/4 | 1 1/2-2 | 5.00 | 9.40 |
| 16 | 4 1/4 | 4 1/4 | 1 1/2-2 | 5.00 | 9.40 |

CUTTERS FOR MITRE AND BEVEL GEARS

MORSE

No. 964—Carbon Steel

No. 1964—High Speed Steel



| Diam- etral Pitch | Diam. Cutter, Inches | | Diam. Hole, Inches | Each | |
|-------------------------|----------------------|------------------------|--------------------------|-----------------|------------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 3 | 4 | 4 | 1 1/4 | \$9.50 | \$17.90 |
| 4 | 3 1/2 | 3 5/8 | 1 1/4 | 7.00 | 13.65 |
| 5 | 3 1/4 | 3 3/8 | 1 1/4 | 6.00 | 11.15 |
| 6 | 3 | 3 1/8 | 1 | 5.50 | 10.00 |
| 7 | 2 7/8 | 2 7/8 | 1 | 5.15 | 8.75 |
| 8 | 2 3/4 | 2 3/4 | 1 | 5.00 | 8.50 |
| 10 | 2 1/4 | 2 3/8 | 7/8 | 4.50 | 7.10 |
| 12 | 2 1/8 | 2 1/4 | 7/8 | 3.90 | 6.00 |
| 14 | 2 | 2 1/8 | 7/8 | 3.40 | 5.65 |
| 16 | 2 | 2 1/8 | 7/8 | 3.20 | 5.25 |
| 20 | 1 3/4 | 2 | 7/8 | 2.90 | 4.60 |
| 24 | 1 3/4 | 1 3/4 | 7/8 | 2.65 | 4.25 |

FOR USE ON AUTOMATIC GEAR CUTTING MACHINES

With 3/8 Inch Hole

No. 965—Carbon Steel

No. 1965—High Speed Steel

| Diam- etral Pitch | Diam. Cutter, Inches | | Diam. Hole, Inches | Each | |
|-------------------------|----------------------|------------------------|--------------------------|-----------------|------------------------|
| | Carbon Steel | High Speed Steel | | Carbon Steel | High Speed Steel |
| 4 | 3 3/8 | 3 1/2 | 3/8 | \$7.00 | \$12.50 |
| 5 | 3 1/8 | 3 1/4 | 3/8 | 6.00 | 10.30 |
| 6 | 3 | 3 1/8 | 3/8 | 5.50 | 10.00 |
| 7 | 2 3/4 | 2 7/8 | 3/8 | 5.15 | 8.75 |
| 8 | 2 3/4 | 2 7/8 | 3/8 | 5.00 | 8.50 |
| 10 | 2 3/8 | 2 3/8 | 3/8 | 4.60 | 7.30 |
| 12 | 2 1/2 | 2 1/2 | 3/8 | 4.00 | 6.25 |

Eight cutters made for each pitch. See page 32.

Cutters having dimensions other than listed are special and subject to special prices.

SPROCKET WHEEL CUTTERS FOR ROLLER CHAINS

MORSE



No. 987—Carbon Steel No. 1987—High Speed Steel

American Standard Tooth Forms.

Adopted by S.A.E., A.S.M.E. and A.G.M.A.

| Circular Pitch, Inch. | Diam. of Roll, Inch. | No. of Teeth in Sprocket | Diam. Cutter, Inches | Width of Cutter, Inches | Size of Hole, Inch. | Each | |
|-----------------------|----------------------|--------------------------|----------------------|-------------------------|---------------------|--------------|------------------|
| | | | | | | Carbon Steel | High Speed Steel |
| % | .200 | 6 | 2 3/4 | 1 1/2 | 1 | \$4.80 | \$8.00 |
| | | 7 to 8 | 2 3/4 | 1 1/2 | | 4.80 | 8.00 |
| | | 9 to 11 | 2 3/4 | 1 1/2 | | 4.80 | 8.00 |
| | | 12 to 17 | 2 3/4 | 1 1/2 | | 4.60 | 7.65 |
| | | 18 to 34 | 2 3/4 | 1 1/2 | | 4.60 | 7.65 |
| 1/2 or 3/4 | .313 | 35 & Over | 2 3/4 | 1 1/2 | 1 | 4.60 | 7.65 |
| | | 6 | 3 3/4 | 2 1/4 | | 6.10 | 10.65 |
| | | 7 to 8 | 3 3/4 | 2 1/4 | | 6.10 | 10.65 |
| | | 9 to 11 | 3 3/4 | 2 1/4 | | 6.60 | 11.65 |
| | | 12 to 17 | 3 3/4 | 2 1/4 | | 6.60 | 11.65 |
| % | .400 | 18 to 34 | 3 3/4 | 2 1/4 | 1 | 6.60 | 11.65 |
| | | 35 & Over | 3 3/4 | 2 1/4 | | 6.60 | 11.65 |
| | | 6 | 4 3/4 | 3 1/4 | | 6.60 | 11.65 |
| | | 7 to 8 | 4 3/4 | 3 1/4 | | 6.60 | 11.65 |
| | | 9 to 11 | 4 3/4 | 3 1/4 | | 6.60 | 11.65 |
| % | .469 | 12 to 17 | 4 3/4 | 3 1/4 | 1 | 6.60 | 11.65 |
| | | 18 to 34 | 4 3/4 | 3 1/4 | | 6.60 | 11.65 |
| | | 35 & Over | 4 3/4 | 3 1/4 | | 6.60 | 11.65 |
| | | 6 | 5 3/4 | 4 1/4 | | 7.70 | 13.00 |
| | | 7 to 8 | 5 3/4 | 4 1/4 | | 7.70 | 13.00 |
| 1 | .563 | 9 to 11 | 5 3/4 | 4 1/4 | 1 1/4 | 8.50 | 15.50 |
| | | 12 to 17 | 5 3/4 | 4 1/4 | | 7.85 | 14.15 |
| | | 18 to 34 | 5 3/4 | 4 1/4 | | 7.85 | 14.15 |
| | | 35 & Over | 5 3/4 | 4 1/4 | | 7.85 | 14.15 |
| | | 6 | 6 3/4 | 5 1/4 | | 9.85 | 18.75 |
| 1 or 1 1/4 | .625 | 7 to 8 | 6 3/4 | 5 1/4 | 1 1/4 | 10.75 | 20.65 |
| | | 9 to 11 | 6 3/4 | 5 1/4 | | 10.75 | 20.65 |
| | | 12 to 17 | 6 3/4 | 5 1/4 | | 10.75 | 20.65 |
| | | 18 to 34 | 6 3/4 | 5 1/4 | | 10.40 | 19.65 |
| | | 35 & Over | 6 3/4 | 5 1/4 | | 10.40 | 19.65 |
| 1 1/4 or 1 1/2 | .750 | 6 | 7 3/4 | 6 1/4 | 1 1/4 | 11.40 | 22.50 |
| | | 7 to 8 | 7 3/4 | 6 1/4 | | 11.40 | 22.50 |
| | | 9 to 11 | 7 3/4 | 6 1/4 | | 12.25 | 24.50 |
| | | 12 to 17 | 7 3/4 | 6 1/4 | | 12.25 | 24.50 |
| | | 18 to 34 | 7 3/4 | 6 1/4 | | 12.25 | 24.50 |
| 1 1/2 | .875 | 35 & Over | 7 3/4 | 6 1/4 | 1 1/2 | 11.30 | 23.50 |
| | | 6 | 8 3/4 | 7 1/4 | | 13.65 | 28.65 |
| | | 7 to 8 | 8 3/4 | 7 1/4 | | 14.65 | 31.25 |
| | | 9 to 11 | 8 3/4 | 7 1/4 | | 14.65 | 31.25 |
| | | 12 to 17 | 8 3/4 | 7 1/4 | | 13.85 | 28.90 |
| 1 3/4 | 1.000 | 18 to 34 | 8 3/4 | 7 1/4 | 1 3/4 | 14.85 | 31.25 |
| | | 35 & Over | 8 3/4 | 7 1/4 | | 14.85 | 31.25 |
| | | 6 | 9 3/4 | 8 1/4 | | 14.50 | 30.15 |
| | | 7 to 8 | 9 3/4 | 8 1/4 | | 14.65 | 31.25 |
| | | 9 to 11 | 9 3/4 | 8 1/4 | | 15.75 | 33.90 |
| 2 | 1.125 | 12 to 17 | 9 3/4 | 8 1/4 | 1 1/2 | 14.85 | 31.25 |
| | | 18 to 34 | 9 3/4 | 8 1/4 | | 14.85 | 31.25 |
| | | 35 & Over | 9 3/4 | 8 1/4 | | 14.50 | 30.15 |
| | | 6 | 10 3/4 | 9 1/4 | | 18.50 | 40.50 |
| | | 7 to 8 | 10 3/4 | 9 1/4 | | 19.70 | 44.90 |
| 2 1/2 | 1.550 | 9 to 11 | 10 3/4 | 9 1/4 | 1 1/2 | 19.70 | 44.90 |
| | | 12 to 17 | 10 3/4 | 9 1/4 | | 21.00 | 48.30 |
| | | 18 to 34 | 10 3/4 | 9 1/4 | | 19.10 | 43.75 |
| | | 35 & Over | 10 3/4 | 9 1/4 | | 19.10 | 43.75 |
| | | 6 | 11 3/4 | 10 1/4 | | 23.00 | 53.00 |
| 3 | 1.900 | 7 to 8 | 11 3/4 | 10 1/4 | 1 1/2 | 23.00 | 53.00 |
| | | 9 to 11 | 11 3/4 | 10 1/4 | | 24.50 | 57.00 |
| | | 12 to 17 | 11 3/4 | 10 1/4 | | 24.50 | 57.00 |
| | | 18 to 34 | 11 3/4 | 10 1/4 | | 23.80 | 57.75 |
| | | 35 & Over | 11 3/4 | 10 1/4 | | 23.80 | 57.75 |
| | | 6 | 12 3/4 | 11 1/4 | 1 3/4 | 34.80 | 85.45 |
| | | 7 to 8 | 12 3/4 | 11 1/4 | | 37.00 | 91.50 |
| | | 9 to 11 | 12 3/4 | 11 1/4 | | 37.00 | 91.50 |
| | | 12 to 17 | 12 3/4 | 11 1/4 | | 39.50 | 97.90 |
| | | 18 to 34 | 12 3/4 | 11 1/4 | | 36.40 | 90.30 |
| | | 35 & Over | 12 3/4 | 11 1/4 | 1 3/4 | 38.90 | 96.60 |
| | | 6 | 13 3/4 | 12 1/4 | | 58.85 | 142.65 |
| | | 7 to 8 | 13 3/4 | 12 1/4 | | 59.60 | 147.40 |
| | | 9 to 11 | 13 3/4 | 12 1/4 | | 63.50 | 157.00 |
| | | 12 to 17 | 13 3/4 | 12 1/4 | | 59.15 | 146.65 |
| | | 18 to 34 | 13 3/4 | 12 1/4 | 1 3/4 | 59.15 | 146.65 |
| | | 35 & Over | 13 3/4 | 12 1/4 | | 58.20 | 150.80 |

CUTTERS FOR FLUTING REAMERS

MORSE

No. 991—Carbon Steel

No. 1991—High Speed Steel



These cutters are especially adapted for fluting reamers and have greater strength than those made for grooving both taps and reamers.

In ordering give number of cutter, or diameter and number of flutes of reamers.

Cutters having dimensions other than listed are special and subject to special prices.

| Cutter No. | Diam. of Reamer, Inches | No. Teeth in Reamer | Diam. of Cutter, Inches | Hole in Cutter, Inches | Each | |
|------------|-------------------------|---------------------|-------------------------|------------------------|--------------|------------------|
| | | | | | Carbon Steel | High Speed Steel |
| 1 | 1/8 to 3/8 | 6 | 2 | 1 | \$2.70 | \$4.00 |
| 2 | 1/4 to 1/2 | 6 | 2 | 1 | 3.50 | 5.30 |
| 3 | 3/8 to 5/8 | 6 | 2 | 1 | 3.70 | 5.75 |
| 4 | 1/2 to 1 1/8 | 6 to 8 | 2 1/4 | 1 | 4.00 | 6.40 |
| 5 | 3/4 to 1 | 8 | 2 1/4 | 1 | 4.20 | 6.70 |
| 6 | 1 1/8 to 1 1/2 | 10 | 2 1/4 | 1 | 4.40 | 7.15 |
| 7 | 1 1/4 to 2 1/8 | 12 | 2 1/2 | 1 | 4.80 | 8.00 |
| 8 | 2 1/4 to 3 | 14 | 2 3/4 | 1 | 5.60 | 9.60 |

CUTTERS FOR GROOVING TAPS AND REAMERS

MORSE

No. 992—Carbon Steel No. 1992—High Speed Steel



| Cutter No. | Diam. of Cutter, Inches | Hole in Cutter, Inches | Each | |
|------------|-------------------------|------------------------|--------------|------------------|
| | | | Carbon Steel | High Speed Steel |
| 1 | 2 | 1 | \$2.30 | \$3.40 |
| 2 | 2 | 1 | 2.70 | 4.00 |
| 3 | 2 1/4 | 1 | 3.75 | 5.90 |
| 4 | 2 1/4 | 1 | 4.00 | 6.40 |
| 5 | 2 3/8 | 1 | 4.80 | 8.00 |
| 6 | 2 1/2 | 1 | 5.10 | 8.60 |
| 7 | 2 5/8 | 1 | 6.40 | 11.25 |
| 8 | 2 3/4 | 1 | 7.25 | 13.15 |

These cutters are designed for grooving either taps or reamers, in accordance with tables below; for example, No. 5 will flute taps for sizes 1/8 to 3/8 in. or reamers of sizes 1/2 to 1 1/4 in. diameter. For grooving reamers it is necessary only to cut one or more grooves of a less depth in order to flute unevenly.

| Cutter No. | Diameter of Tap, Inches | No. Teeth in Tap | Diameter of Reamer, Inches | No. Teeth in Reamer |
|------------|-------------------------|------------------|----------------------------|---------------------|
| 1 | 0 to 1/8 | 4 | 1/8 to 1/4 | 6 |
| 2 | 1/8 to 1/4 | 4 | 1/4 to 3/8 | 6 |
| 3 | 1/4 to 3/8 | 4 | 3/8 to 1/2 | 6 |
| 4 | 3/8 to 1/2 | 4 | 1/2 to 1 1/4 | 6 to 8 |
| 5 | 1/2 to 3/4 | 4 | 3/4 to 1 1/2 | 8 to 10 |
| 6 | 3/4 to 1 1/4 | 4 | 1 1/4 to 2 | 10 |
| 7 | 1 1/4 to 1 3/4 | 4 | 2 1/4 to 2 1/2 | 10 |
| 8 | 1 3/4 to 2 | 4 | 2 1/2 to 3 | 10 |

In ordering give number of cutter, or diameter and number of teeth of reamer.

When you buy a MORSE drill you have at your service a tool in which the steel, temper and point are combined to give you the utmost in drilling ability.

HAND TAPS

MORSE

Shanks Size of Bottom Thread. Shanks Full Size of Thread.



Taper Plug Bottoming Taper Plug Bottoming

U. S. Standard Thread furnished unless otherwise specified. A Set consists of three taps. Left Hand Taps are special.

Taps $\frac{1}{8}$ in. diameter and under have three flutes, $\frac{3}{16}$ in. diameter and over have four flutes.

Orders for Hand Taps to and including $\frac{3}{8}$ in. will be filled with taps having shanks full diameter of thread. Taps $\frac{1}{2}$ in. and larger will be furnished with shanks smaller than root diameter of thread.

We will furnish at regular prices $\frac{3}{8}$ in. hand taps with shanks smaller than root diameter of thread.

Sizes, lengths and threads not listed are subject to special prices.

No. 1040—Carbon Steel, Smaller than $\frac{1}{4}$ inch

| Diam., Inches | Each | Per Set | Number of Threads to Inch | | Length, Inches |
|------------------|--------|---------|------------------------------|------------------------|-------------------|
| | | | U. S. S. Std. | Whit- worth Std. | |
| $\frac{1}{16}$ | \$0.50 | \$1.50 | 64 | 60 | $1\frac{1}{2}$ |
| $\frac{1}{8}$ | .45 | 1.35 | 60 | 56 | $1\frac{1}{2}$ |
| $\frac{3}{16}$ | .40 | 1.20 | 50 | 48 | $1\frac{1}{2}$ |
| $\frac{1}{4}$ | .40 | 1.20 | 48 | 44 | $1\frac{1}{2}$ |
| $\frac{5}{16}$ | .35 | 1.05 | 40 | 40 | $1\frac{1}{2}$ |
| $\frac{3}{8}$ | .35 | 1.05 | 40 | 40 | $1\frac{1}{2}$ |
| $\frac{7}{16}$ | .35 | 1.05 | 36 | 32 | $1\frac{1}{2}$ |
| $\frac{1}{2}$ | .35 | 1.05 | 32 | 32 | $1\frac{1}{2}$ |
| $\frac{9}{16}$ | .40 | 1.20 | 32 | 24 | $1\frac{1}{2}$ |
| $\frac{5}{8}$ | .40 | 1.20 | 32 | 24 | $1\frac{1}{2}$ |
| $\frac{3}{4}$ | .45 | 1.35 | 32 | 24 | $1\frac{1}{2}$ |
| $\frac{7}{8}$ | .45 | 1.35 | 32 | 24 | $1\frac{1}{2}$ |

No. 1040—Carbon Steel, $\frac{1}{4}$ inch and Larger.

| Diam., Inch. | Each | Per Set | Number of Threads to Inch | | Lgth., Inch. |
|-----------------|--------|---------|------------------------------|------------------------|-----------------|
| | | | U. S. S. Std. | Whit- worth Std. | |
| $\frac{1}{4}$ | \$0.45 | \$1.35 | 20 | 28 | $1\frac{1}{2}$ |
| $\frac{3}{8}$ | .50 | 1.50 | 18 | 24 | $1\frac{1}{2}$ |
| $\frac{1}{2}$ | .55 | 1.65 | 16 | 24 | $1\frac{1}{2}$ |
| $\frac{5}{8}$ | .60 | 1.80 | 14 | 20 | $1\frac{1}{2}$ |
| $\frac{3}{4}$ | .70 | 2.10 | 12 | 20 | $1\frac{1}{2}$ |
| $\frac{7}{8}$ | .80 | 2.40 | 12 | 18 | $1\frac{1}{2}$ |
| 1 | .90 | 2.70 | 11 | 18 | $1\frac{1}{2}$ |
| $1\frac{1}{8}$ | 1.05 | 3.15 | 11 | 16 | $1\frac{1}{2}$ |
| $1\frac{1}{4}$ | 1.20 | 3.60 | 10 | 16 | $1\frac{1}{2}$ |
| $1\frac{3}{8}$ | 1.40 | 4.20 | 10 | 14 | $1\frac{1}{2}$ |
| $1\frac{1}{2}$ | 1.60 | 4.80 | 9 | 14 | $1\frac{1}{2}$ |
| $1\frac{3}{4}$ | 1.80 | 5.40 | 9 | 12 | $1\frac{1}{2}$ |
| 2 | 2.00 | 6.00 | 8 | 12 | $1\frac{1}{2}$ |
| $2\frac{1}{8}$ | 2.25 | 6.75 | 7 | 12 | $1\frac{1}{2}$ |
| $2\frac{1}{4}$ | 2.60 | 7.80 | 7 | 10 | $1\frac{1}{2}$ |
| $2\frac{3}{8}$ | 3.00 | 9.00 | 6 | 10 | $1\frac{1}{2}$ |
| $2\frac{1}{2}$ | 3.50 | 10.50 | 6 | 8 | $1\frac{1}{2}$ |
| $2\frac{7}{8}$ | 4.20 | 12.60 | 5 | 8 | $1\frac{1}{2}$ |
| 3 | 5.00 | 15.00 | 5 | 5 | $1\frac{1}{2}$ |
| $3\frac{1}{8}$ | 5.80 | 17.40 | 5 | 5 | $1\frac{1}{2}$ |
| $3\frac{1}{4}$ | 6.70 | 20.10 | 4 | 5 | $1\frac{1}{2}$ |
| $3\frac{3}{8}$ | 8.00 | 24.00 | 4 | 4 | $1\frac{1}{2}$ |
| $3\frac{1}{2}$ | 9.20 | 27.60 | 4 | 4 | $1\frac{1}{2}$ |
| $3\frac{3}{4}$ | 10.50 | 31.50 | 4 | 4 | $1\frac{1}{2}$ |
| 4 | 11.50 | 34.50 | 4 | 4 | $1\frac{1}{2}$ |

No. 2040—High Speed Steel

| Diam., Inches | Each | U. S. S. Thread | S. A. E. Thread | Diam., Inches | Each | U. S. S. Thread | S. A. E. Thread |
|------------------|--------|--------------------|--------------------|------------------|--------|--------------------|--------------------|
| | | | | | | | |
| $\frac{1}{8}$ | \$0.85 | 20 | 28 | $\frac{3}{16}$ | \$3.10 | 10 | 16 |
| $\frac{1}{4}$ | .95 | 18 | 24 | $\frac{1}{2}$ | 4.30 | 9 | 14, 18 |
| $\frac{3}{8}$ | 1.10 | 16 | 24 | $\frac{5}{8}$ | 5.75 | 8 | 14 |
| $\frac{1}{2}$ | 1.30 | 14 | 20 | $\frac{3}{4}$ | 7.45 | 7 | 12 |
| $\frac{5}{8}$ | 1.55 | 12 | 20 | $\frac{7}{8}$ | 9.55 | 7 | 12 |
| $\frac{3}{4}$ | 1.85 | 12 | 18 | 1 | 11.95 | 6 | 12 |
| $\frac{7}{8}$ | 2.20 | 11 | 18 | $1\frac{1}{8}$ | 14.75 | 6 | 12 |
| 1 | 2.60 | 11 | 16 | | | | |

HAND TAPS

MORSE SPIRAL POINTED



No. 1045—Carbon Steel

Spiral Pointed Taps are Stronger, require less power and produce more accurate work than ordinary taps. They are furnished in plug style only. U. S. Standard Threads furnished unless otherwise specified. Left Hand Taps are special.

| Diam., Inches | Each | Number of Threads to the Inch | | | Number of Flutes |
|------------------|--------|-------------------------------|------------------|---------------------------------|---------------------|
| | | U. S. Std. | S. A. E. Std. | U. S. Form Also Furnished | |
| $\frac{1}{8}$ | \$0.45 | 40 | | | 2 |
| $\frac{1}{4}$ | .50 | 24 | | 32 | 2 |
| $\frac{3}{8}$ | .55 | 20 | 28 | 24 | 2 |
| $\frac{1}{2}$ | .60 | 18 | 24 | 20 | 2 |
| $\frac{5}{8}$ | .70 | 16 | 24 | | 3 |
| $\frac{3}{4}$ | .75 | 14 | 20 | | 3 |
| $\frac{7}{8}$ | .85 | 13 | 20 | | 3 |
| 1 | 1.00 | 12 | 18 | | 3 |
| $1\frac{1}{8}$ | 1.10 | 11 | 18 | | 3 |
| $1\frac{1}{4}$ | 1.45 | 10 | 16 | | 3 |
| $1\frac{3}{8}$ | 1.90 | 9 | 14, 18 | | 4 |
| $1\frac{1}{2}$ | 2.40 | 8 | 14 | | 4 |

No. 2045—High Speed Steel

| Diam., Inches | Each | U. S. S. Thrad | S. A. E. Thrad | Diam., Inches | Each | U. S. S. Thrad | S. A. E. Thrad |
|------------------|--------|-------------------|-------------------|------------------|--------|-------------------|-------------------|
| | | | | | | | |
| $\frac{1}{4}$ | \$0.95 | 20 | 28 | $\frac{3}{8}$ | \$2.05 | 12 | 18 |
| $\frac{3}{8}$ | 1.05 | 18 | 24 | $\frac{1}{2}$ | 2.40 | 11 | 18 |
| $\frac{1}{2}$ | 1.25 | 16 | 24 | $\frac{5}{8}$ | 3.35 | 10 | 16 |
| $\frac{3}{4}$ | 1.45 | 14 | 20 | $\frac{7}{8}$ | 4.60 | 9 | 14, 18 |
| $\frac{7}{8}$ | 1.70 | 13 | 20 | 1 | 6.15 | 8 | 14 |

MACHINE SCREW TAPS

MORSE A. S. M. E. STANDARD



No. 1066—Carbon Steel

Furnished in Plug Style only. Left Hand Taps are special.

| Screw Gauge No. | Approx. Diam., Inches | Each | Per Dozen | Std. No. of Threads | Threads Also Furnished | Length, Inches |
|-----------------------|-----------------------------|--------|--------------|---------------------------|------------------------------|-------------------|
| 0 | .060 | \$0.50 | \$6.00 | 80 | | $1\frac{1}{2}$ |
| 1 | .073 | .50 | 6.00 | 72 | 56, 64 | $1\frac{1}{2}$ |
| 2 | .086 | .45 | 5.40 | 64 | 56 | $1\frac{1}{2}$ |
| 3 | .099 | .40 | 4.80 | 56 | 48 | $1\frac{1}{2}$ |
| 4 | .112 | .40 | 4.80 | 48 | 32, 36, 40 | $1\frac{1}{2}$ |
| 5 | .125 | .35 | 4.20 | 44 | 36, 40 | $1\frac{1}{2}$ |
| 6 | .138 | .35 | 4.20 | 40 | 32, 36 | 2 |
| 8 | .164 | .35 | 4.20 | 36 | 30, 32, 40 | $2\frac{3}{8}$ |
| 10 | .190 | .40 | 4.80 | 30 | 24, 28, 32 | $2\frac{3}{8}$ |
| 12 | .216 | .45 | 5.40 | 28 | 24, 32 | $2\frac{3}{8}$ |
| 14 | .242 | .45 | 5.40 | 24 | 20 | $2\frac{1}{2}$ |

No. 2066—High Speed Steel

| Screw Gauge No. | Approx. Diam., Inches | Each | Per Dozen | Std. No. of Threads | Threads Also Furnished | Length, Inches |
|-----------------------|-----------------------------|--------|--------------|---------------------------|------------------------------|-------------------|
| 4 | .112 | \$0.70 | \$8.40 | 48 | 36, 40 | $1\frac{1}{2}$ |
| 6 | .138 | .70 | 8.40 | 40 | 32 | 2 |
| 8 | .164 | .70 | 8.40 | 36 | 32 | $2\frac{1}{8}$ |
| 10 | .190 | .75 | 9.00 | 30 | 24, 32 | $2\frac{3}{8}$ |
| 12 | .216 | .80 | 9.60 | 28 | 24 | $2\frac{3}{8}$ |
| 14 | .242 | .85 | 10.20 | 24 | 20 | $2\frac{1}{2}$ |

MACHINE SCREW TAPS

MORSE SPIRAL POINTED



A. S. M. E. Standard, Two Fluted

Stronger and requires less power than ordinary taps. They are furnished in plug style only. Left hand taps are special.

No. 1067—Carbon Steel

| Gauge Nos. | Approx. Diam., Inches | Each | Standard Threads Per Inch | Threads Also Furnished | Length, Inches |
|------------|-----------------------|--------|---------------------------|------------------------|----------------|
| 3 | .099 | \$0.60 | 56 | 48 | 1 1/8 |
| 4 | .112 | .50 | 48 | 36, 40 | 1 7/8 |
| 5 | .125 | .45 | 40 | 32, 36 | 1 1/2 |
| 6 | .138 | .45 | 36 | 32 | 2 1/8 |
| 8 | .164 | .50 | 30 | 24, 32 | 2 3/8 |
| 10 | .190 | .55 | 28 | 24, 32 | 2 3/8 |
| 12 | .216 | .55 | 24 | 20 | 2 1/2 |
| 14 | .242 | .55 | 24 | 20 | 2 1/2 |

No. 2067—High Speed Steel

| Gauge Nos. | Approx. Diam., Inches | Each | Standard Threads Per Inch | Threads Also Furnished | Length, Inches |
|------------|-----------------------|--------|---------------------------|------------------------|----------------|
| 4 | .112 | \$0.80 | 48 | 36, 40 | 1 7/8 |
| 6 | .138 | .80 | 40 | 32 | 2 1/8 |
| 8 | .164 | .80 | 36 | 32 | 2 3/8 |
| 10 | .190 | .85 | 30 | 24, 32 | 2 3/8 |
| 12 | .216 | .90 | 28 | 24 | 2 3/8 |
| 14 | .242 | .95 | 24 | 20 | 2 1/2 |

TAPPER TAPS

MORSE



No. 1071—Carbon Steel

U. S. Form of thread always furnished unless otherwise ordered. When ordering specify length desired.

Tapper Taps will be furnished with plain round, squared, flatted, Acme or all styles of National shanks at regular prices. All others will be considered special.

Sizes, lengths and threads not listed are subject to special prices.

Left Hand Taps are specials.

| Diam., Inches | Threads Per Inch | | | Length Thread, Inches | Price Each by Lengths | |
|---------------|------------------|---------------|----------------|-----------------------|-----------------------|----------|
| | U. S. Std. | S. A. E. Std. | Whitworth Std. | | 12 Inch. | 15 Inch. |
| 1/4 | 20 | 28 | 20 | 1 3/4 | \$0.75 | \$ 0.90 |
| 5/16 | 18 | 24 | 18 | 2 | .85 | 1.00 |
| 3/8 | 16 | 24 | 16 | 2 | .95 | 1.10 |
| 7/16 | 14 | 20 | 14 | 2 1/4 | 1.05 | 1.25 |
| 1/2 | 13 | 20 | 12 | 2 1/4 | 1.15 | 1.35 |
| 5/8 | 12 | 18 | 12 | 2 1/2 | 1.35 | 1.55 |
| 3/4 | 11 | 18 | 11 | 2 1/2 | 1.50 | 1.75 |
| 7/8 | 11 | 16 | 11 | 2 1/2 | 1.70 | 1.95 |
| 1 | 10 | 16 | 10 | 2 3/4 | 1.95 | 2.10 |
| 1 1/8 | 10 | ..... | 10 | 2 3/4 | 2.20 | 2.35 |
| 1 1/4 | 9 | 14, 18 | 9 | 3 | 2.50 | 2.75 |
| 1 1/2 | 9 | ..... | 9 | 3 | 2.90 | 3.15 |
| 1 3/4 | 8 | 14 | 8 | 3 1/2 | 3.30 | 3.65 |
| 1 7/8 | 7 | 12 | 7 | 3 1/2 | 4.15 | 4.45 |
| 2 | 7 | 12 | 7 | 3 1/2 | 5.10 | 5.40 |
| 2 1/8 | 6 | 12 | 6 | 4 | 6.00 | 6.30 |
| 2 1/4 | 6 | 12 | 6 | 4 | 7.35 | 7.65 |
| 2 3/8 | 5 1/2 | ..... | 5 | 4 | 8.35 | 8.65 |
| 2 1/2 | 5 | ..... | 5 | 4 1/2 | 9.65 | 9.95 |
| 2 3/4 | 5 | ..... | 4 1/2 | 4 1/2 | 10.75 | 11.05 |
| 3 | 4 1/2 | ..... | 4 1/2 | 4 1/2 | 12.25 | 12.55 |

NUT TAPS

MORSE



No. 1050—Carbon Steel No. 2050—High Speed Steel

U. S. Standard Thread furnished unless otherwise specified. High Speed Taps furnished in U. S. S. and S. A. E. Threads only. All other High Speed Taps are special. All Left Hand Taps are special.

| Diam., Inches | Each | | No. of Threads to the Inch | | | Whole Length, Inches | Length of Thread, Inches |
|---------------|--------------|------------------|----------------------------|---------------|----------------|----------------------|--------------------------|
| | Carbon Steel | High Speed Steel | U. S. Std. | S. A. E. Std. | Whitworth Std. | | |
| 1/8 | \$ 0.60 | ..... | 24, 32 | ..... | 24 | 4 1/2 | 1 1/4 |
| 1/4 | .60 | \$ 1.50 | 20 | 28 | 20 | 5 | 1 5/8 |
| 3/8 | .70 | 1.70 | 18 | 24 | 18 | 5 1/2 | 1 3/4 |
| 1/2 | .80 | 2.00 | 16 | 24 | 16 | 6 | 2 1/8 |
| 5/8 | .90 | 2.40 | 14 | 20 | 14 | 6 1/2 | 2 1/4 |
| 3/4 | 1.00 | 2.70 | 13 | 20 | 12 | 7 | 2 3/8 |
| 7/8 | 1.15 | ..... | 12 | 18 | 12 | 7 1/2 | 2 3/4 |
| 1 | 1.35 | 4.05 | 11 | 18 | 11 | 8 | 2 3/8 |
| 1 1/8 | 1.60 | ..... | 11 | 16 | 11 | 8 1/2 | 2 3/4 |
| 1 1/4 | 1.85 | 5.65 | 10 | 16 | 10 | 9 | 3 1/4 |
| 1 1/2 | 2.15 | ..... | 10 | ..... | 10 | 9 1/2 | 3 1/4 |
| 1 3/4 | 2.45 | 7.90 | 9 | 14, 18 | 9 | 10 | 3 3/4 |
| 2 | 2.80 | ..... | 9 | ..... | 9 | 10 1/2 | 3 3/4 |
| 2 1/8 | 3.15 | 10.55 | 8 | 14 | 8 | 11 | 4 1/8 |
| 2 1/4 | 3.70 | ..... | 7 | 12 | 7 | 11 1/2 | 4 1/4 |
| 2 1/2 | 4.50 | ..... | 7 | 12 | 7 | 12 | 4 1/4 |
| 2 3/8 | 5.50 | ..... | 6 | 12 | 6 | 12 1/2 | 5 1/8 |
| 2 1/2 | 6.75 | ..... | 6 | 12 | 6 | 13 | 5 1/8 |
| 2 3/4 | 8.00 | ..... | 5 1/2 | ..... | 5 | 13 1/2 | 5 1/2 |
| 3 | 9.25 | ..... | 5 | ..... | 5 | 14 | 5 1/2 |
| 3 1/8 | 10.75 | ..... | 5 | ..... | 4 1/2 | 14 1/2 | 6 1/8 |
| 3 1/4 | 12.25 | ..... | 4 1/2 | ..... | 4 1/2 | 15 | 6 1/8 |
| 3 1/2 | 14.00 | ..... | 4 1/2 | ..... | 4 1/2 | 15 1/2 | 6 1/8 |
| 3 3/8 | 15.75 | ..... | 4 1/2 | ..... | 4 | 16 | 6 1/8 |
| 3 1/2 | 17.75 | ..... | 4 | ..... | 4 | 16 1/2 | 6 1/8 |
| 4 | 20.00 | ..... | 4 | ..... | 4 | 17 | 6 1/8 |

STOVE BOLT TAPS

MORSE



No. 1076—Carbon Steel

Furnished in Plug Style only. Left Hand Taps are special.

| Diameter, Inches | 1/4 | 3/8 | 1/2 | 3/4 |
|------------------|--------|------|------|------|
| Threads Per Inch | 24 | 18 | 18 | 16 |
| Each | \$0.40 | .45 | .50 | .55 |
| Per Dozen | 4.80 | 5.40 | 6.00 | 6.60 |

PATCH-BOLT TAPS

MORSE



No. 1125—Carbon Steel

These Taps all have a whole length of 3 1/2 in. They are made especially for boiler makers and have a taper of 3/4 in. to the foot for the purpose of making the bolt a steam-tight fit.

United States Standard form of thread furnished unless otherwise specified.

Sizes, lengths and threads not listed are subject to special prices. Left Hand and Taps with V form of thread are special.

| Diameter Tap, Inches | 1/2 | 3/8 | 5/8 | 1 1/8 | 3/4 |
|------------------------|--------|------|-------|-------|-------|
| Thds. Per Inch, U.S.F. | 12 | 12 | 12 | 12 | 12 |
| Each | \$1.00 | 1.10 | 1.25 | 1.45 | 1.70 |
| Diameter Tap, Inches | 1 1/8 | 3/4 | 1 1/4 | 1 1/2 | 1 3/4 |
| Thds. Per Inch, U.S.F. | 12 | 12 | 12 | 12 | 12 |
| Each | \$1.95 | 2.25 | 2.40 | 2.80 | 3.15 |
| Diameter Tap, Inches | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 |
| Thds. Per Inch, U.S.F. | 12 | 12 | 12 | 12 | 12 |
| Each | \$2.90 | 3.00 | 3.15 | 3.35 | 3.65 |

BENT SHANK TAPPER TAPS

MORSE



No. 1074—Carbon Steel

Always give diameter and machine size when ordering. Left Hand Taps are special.

| Dia., Inches | Each | Threads to Inch | | Size of Machine | Length Thread, In. | | Length Before Bending Inches |
|-----------------|--------|--------------------|------------------|--------------------|-----------------------|------------------|---------------------------------------|
| | | U. S. Std. | S. A. E. Std. | | U. S. Std. | S. A. E. Std. | |
| 1/8 | \$0.65 | 40 | ..... | 1/8 | 1 1/2 | ..... | 6 3/4 |
| 3/16 | .65 | 24 | ..... | 1/8 | 1 1/2 | ..... | 6 3/4 |
| 1/4 | .65 | 20 | 28 | 1/8 | 1 1/2 | 1 1/2 | 6 3/4 |
| 5/16 | .70 | 20 | 28 | 3/8 | 1 1/2 | 1 1/2 | 8 3/4 |
| 3/8 | .80 | 18 | 24 | 3/8 | 1 1/2 | 1 1/2 | 8 3/4 |
| 7/16 | .90 | 16 | 24 | 3/8 | 1 1/2 | 1 1/2 | 8 3/4 |
| 1/2 | .95 | 16 | 24 | 1/2 | 1 1/2 | 1 1/2 | 11 3/4 |
| 5/8 | 1.05 | 14 | 20 | 1/2 | 1 1/2 | 1 1/2 | 11 3/4 |
| 3/4 | 1.15 | 13 | 20 | 1/2 | 1 1/2 | 1 1/2 | 11 3/4 |
| 7/8 | 1.55 | 12 | 18 | 3/4 | 1 1/2 | 1 1/2 | 15 |
| 1 | 1.75 | 11 | 18 | 3/4 | 2 | 1 1/2 | 15 |
| 1 1/8 | 2.10 | ..... | 16 | 3/4 | ..... | 1 3/4 | 15 |

TAPS FOR BEAMAN & SMITH
HOLDERS

MORSE



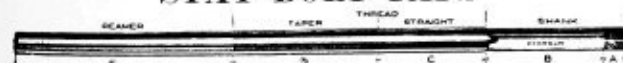
No. 1102—Carbon Steel

No. 2102—High Speed Steel

Furnished regularly U. S. Standard Thread. Plug Style Left Hand Taps and Length and Threads not listed are special and subject to special prices. Prices of Taps fitting Nos. 2 1/2 and 3 Holders on application.

| Dia. Tap, Inches | Carbon Steel Each | | High Speed Steel, Each | | Threads to Inch | | Dia. Sh'nk, Inches | Whole Lgth., Inches |
|------------------------|----------------------------|----------------------------|------------------------------|----------------------------|--------------------|------------------|--------------------------|---------------------------|
| | Fitting No. 1 H'lder | Fitting No. 2 H'lder | Fitting No. 1 Holder | Fitting No. 2 Holder | U. S. Std. | S. A. E. Std. | | |
| 1/4 | \$0.55 | ..... | \$1.30 | ..... | 20 | 28 | 3/8 | 2 3/4 |
| 3/16 | .55 | ..... | 1.35 | ..... | 18 | 24 | 3/8 | 3 |
| 1/8 | .55 | ..... | 1.40 | ..... | 16 | 24 | 3/8 | 3 1/4 |
| 7/16 | .75 | ..... | 1.90 | ..... | 14 | 20 | 1/2 | 3 1/2 |
| 1/2 | .75 | ..... | 1.95 | ..... | 13 | 20 | 1/2 | 3 3/4 |
| 5/8 | .80 | ..... | 2.35 | ..... | 12 | 18 | 1 1/2 | 4 |
| 3/4 | .90 | ..... | 2.70 | ..... | 11 | 18 | 1 1/2 | 4 |
| 7/8 | ..... | \$1.20 | ..... | \$3.50 | 11 | 18 | 3/4 | 4 |
| 1 | ..... | 1.20 | ..... | 3.60 | 11 | 16 | 3/4 | 4 1/4 |
| 1 1/8 | ..... | 1.20 | ..... | 3.80 | 10 | 16 | 3/4 | 4 1/2 |
| 1 1/4 | ..... | 1.50 | ..... | ..... | 10 | ..... | 3/4 | 4 3/4 |
| 1 1/2 | ..... | 1.60 | ..... | ..... | 9 | 14, 18 | 3/4 | 5 1/4 |
| 1 3/4 | ..... | 1.80 | ..... | ..... | 9 | ..... | 3/4 | 5 3/4 |
| 2 | ..... | 2.20 | ..... | ..... | 8 | 14 | 3/4 | 5 1/2 |

STAY-BOLT TAPS



No. 1130—Carbon Steel

In ordering, state diameter, pitch, and form of thread, also lengths of parts A, B, C, D and E.

U. S. Standard form of thread furnished unless otherwise specified.

Diameter given is that of the thread at its straight part. Blank order slips furnished on application.

| | | | | | |
|-----------------------|--------|-------|-------|-------|-------|
| Diameter, Inches..... | 3/4 | 1 | 1 1/2 | 1 3/4 | 2 |
| Per Inch..... | \$0.40 | .45 | .50 | .55 | .60 |
| Diameter, Inches..... | 1 1/2 | 1 3/4 | 1 1/2 | 1 3/4 | 1 1/2 |
| Per Inch..... | \$0.70 | .75 | .80 | .85 | .90 |

Stay-Bolt Taps 20 in. and 24 in. long in sizes from 3/4 to 1 1/2 in. diameter, having the following proportions, will be considered regular; all others will be considered special.

| | | | | | |
|-------------------|---|----|-------|-------|-------|
| Length 20 in..... | A | B | C | D | E |
| Length 24 in..... | 1 | 6 | 1 1/2 | 6 | 5 1/2 |
| Length 27 in..... | 1 | 8 | 2 | 6 | 7 |
| Length 30 in..... | 1 | 10 | 2 | 6 1/2 | 7 1/2 |

PIPE TAPS

MORSE



Taper.

No. 1115—Carbon Steel

No. 2115—High Speed Steel



Straight.

No. 1118—Carbon Steel

American (Briggs) Standard Right Hand Taper Pipe Taps are furnished unless otherwise specified.

High Speed Taps regularly furnished Right Hand, Taper Style only. Left Hand Taps take different discount from Right Hand.

| Pipe Size, Inches | Carbon Steel, Each | High Speed Steel, Each | Threads to Inch | Length Thread Inches | Length, Inches |
|-------------------------|--------------------------|---------------------------------|--------------------|----------------------------|-------------------|
| 1/8 | \$ 1.00 | \$ 1.10 | 27 | 3/4 | 2 1/4 |
| 1/4 | 1.20 | 1.50 | 18 | 1 1/4 | 2 3/4 |
| 3/8 | 1.60 | 1.95 | 18 | 1 1/4 | 2 3/4 |
| 1/2 | 2.00 | 3.10 | 14 | 1 3/8 | 3 1/4 |
| 3/4 | 2.80 | 4.40 | 14 | 1 3/8 | 3 3/4 |
| 1 | 4.40 | 7.80 | 11 1/2 | 1 3/8 | 3 3/4 |
| 1 1/4 | 5.00 | 12.10 | 11 1/2 | 1 3/8 | 4 |
| 1 1/2 | 6.60 | 16.60 | 11 1/2 | 1 3/8 | 4 1/4 |
| 2 | 10.00 | 27.25 | 11 1/2 | 1 3/8 | 4 1/2 |
| 2 1/2 | 15.00 | ..... | 8 | 2 3/8 | 5 1/2 |
| 3 | 22.50 | ..... | 8 | 2 3/8 | 6 |
| 3 1/2 | 30.00 | ..... | 8 | 2 3/8 | 6 1/2 |
| 4 | 45.00 | ..... | 8 | 2 3/8 | 6 3/4 |

PIPE REAMERS

MORSE



No. 1116—Carbon Steel

These Pipe Reamers are tapered 3/4 of an inch to the foot and are for reaming holes to be tapped with American (Briggs) Standard Taper Pipe Taps.

Sizes and dimensions not listed are subject to special prices.

| | | | | | | | |
|-------------------|--------|-------|-------|-------|-------|-------|-------|
| Pipe Size, In.... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 |
| Length, Inches.. | 2 1/2 | 2 3/4 | 2 3/4 | 3 1/2 | 3 1/2 | 3 3/4 | 4 |
| Each | \$1.00 | 1.20 | 1.60 | 2.00 | 2.80 | 4.40 | 5.00 |

| | | | | | | |
|-------------------|--------|-------|-------|-------|-------|-------|
| Pipe Size, In.... | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 |
| Length, Inches.. | 4 1/4 | 4 1/2 | 5 1/2 | 6 | 6 1/2 | 6 3/4 |
| Each | \$6.60 | 10.00 | 15.00 | 22.50 | 30.00 | 45.00 |

COMBINED PIPE TAPS AND DRILLS

MORSE



No. 1110—Carbon Steel

For tapping gas and water pipe. Standard taper 3/4 in. to the foot.

| | | | | | | |
|------------------------|--------|-------|-------|-------|-------|-------|
| Pipe Size, Inches..... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Length, Inches..... | 3 1/2 | 3 3/4 | 3 3/4 | 4 3/4 | 4 3/4 | 4 3/4 |
| Each | \$2.25 | 2.50 | 3.00 | 3.75 | 5.00 | 6.25 |

| | | | | | |
|------------------------|--------|-------|-------|-------|-------|
| Pipe Size, Inches..... | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 |
| Length, Inches..... | 5 3/4 | 5 3/4 | 5 3/4 | 6 1/2 | 7 |
| Each | \$7.50 | 9.25 | 12.00 | 21.00 | 30.00 |

Shanks for sizes 1/8 to 1 1/2 in. are 1/2 in. by 3/4 in. and 1 3/4 in. long.

Shanks for sizes 2 to 3 in. are 3/4 in. by 1 in. and 2 in. long.

The above tools furnished with special shanks fitting Pipe Tapping Machines on receipt of order and sketch giving necessary data. Prices quoted on application.

TAP WRENCHES

G. T. D. ADJUSTABLE



Knurled Grips

Fine Tool Steel Jaws, Drop Forged Steel Body, Welded.

| Nos. | 00 | 0 | 4 | 5 |
|-----------------------|---------------------------------|--------------------------------|----------------------------------|----------------------------------|
| Capacity (Tap Sizes)— | | | | |
| Hand, Inches..... | $\frac{1}{16}$ to $\frac{1}{8}$ | $\frac{1}{8}$ to $\frac{1}{4}$ | $\frac{1}{4}$ to $\frac{3}{8}$ | $\frac{3}{8}$ to $\frac{1}{2}$ |
| Machine Screw..... | 0 to 13 | 0 to 18 | 0 to 24 | 10 to 30 |
| Pipe..... | | | $\frac{1}{8}$ | $\frac{1}{4}$ to $\frac{1}{2}$ |
| Length, Inches..... | 5 | 7 | 9 | 11 |
| Weight, Oz..... | 1 $\frac{1}{2}$ | 4 | 7 | 12 |
| Each..... | \$1.75 | 2.00 | 3.00 | 3.50 |
| Nos..... | 6 | 7 | 7 $\frac{1}{2}$ | 8 |
| Capacity (Tap Sizes)— | | | | |
| Hand, Inches..... | $\frac{1}{4}$ to $\frac{3}{8}$ | $\frac{3}{8}$ to 1 | $\frac{3}{8}$ to 1 $\frac{1}{4}$ | $\frac{3}{4}$ to 1 $\frac{1}{2}$ |
| Machine Screw..... | 14 to 30 | 15 to 30 | 22 to 30 | ..... |
| Pipe..... | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{1}{4}$ to $\frac{3}{4}$ | $\frac{3}{4}$ to 1 |
| Length, Inches..... | 15 | 19 | 31 | 40 |
| Weight, Lbs..... | 3 | 3 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 8 |
| Each..... | \$4.00 | 5.00 | 6.50 | 8.00 |

One in a Box.

MORSE ADJUSTABLE



No. 1146—Forged Steel, Polished

| Size | 2 | A | B | C |
|--------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------------------|
| For Hand Taps, In..... | $\frac{1}{16}$ to $\frac{1}{8}$ | $\frac{1}{4}$ to $\frac{1}{2}$ | $\frac{1}{2}$ to 1 $\frac{1}{8}$ | $\frac{3}{4}$ to 1 $\frac{1}{2}$ |
| For Reamers, Inches..... | $\frac{1}{16}$ to $\frac{1}{8}$ | $\frac{1}{4}$ to $\frac{1}{2}$ | $\frac{3}{8}$ to 1 $\frac{1}{8}$ | $\frac{1}{2}$ to 1 $\frac{1}{2}$ |
| Opening, Inches..... | $\frac{1}{16}$ | $\frac{1}{8}$ | $\frac{1}{4}$ | 1 |
| Length, Inches..... | 8 $\frac{1}{2}$ | 12 $\frac{3}{4}$ | 17 $\frac{1}{8}$ | 23 |
| Weight Each, Lbs..... | $\frac{1}{2}$ | $\frac{3}{4}$ | 3 | 4 |
| Each..... | \$2.50 | 3.00 | 4.00 | 5.00 |
| Size | D | E | F | |
| For Hand Taps, In..... | 1 $\frac{1}{4}$ to 2 $\frac{1}{8}$ | 1 $\frac{3}{4}$ to 2 $\frac{1}{2}$ | 2 $\frac{1}{8}$ to 3 $\frac{1}{8}$ | |
| For Reamers, Inches..... | 1 $\frac{1}{8}$ to 2 $\frac{1}{8}$ | 1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ | 2 $\frac{1}{8}$ to 3 | |
| Opening, Inches..... | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 | |
| Length, Inches..... | 45 $\frac{1}{4}$ | 50 | 56 | |
| Weight Each, Lbs..... | 10 | 15 | 20 | |
| Each..... | \$15.00 | 47.50 | 62.50 | |

Sizes D, E and F have handles that screw into body.

One in a Box.

MORSE LIGHT ADJUSTABLE



No. 1145—Forged Steel Polished

| Size | 0 | 1 |
|----------------------------|---------------------------------|--------------------------------|
| For Hand Taps, Inches..... | $\frac{1}{16}$ to $\frac{1}{4}$ | $\frac{1}{8}$ to $\frac{1}{2}$ |
| For Reamers, Inches..... | $\frac{1}{16}$ to $\frac{1}{4}$ | $\frac{1}{8}$ to $\frac{1}{2}$ |
| Opening, Inches..... | $\frac{1}{16}$ | $\frac{1}{4}$ |
| Length, Inches..... | 5 $\frac{1}{8}$ | 6 |
| Weight Each, Oz..... | 6 | 7 |
| Each..... | \$1.60 | 2.00 |

One in a Box.

STARRETT ADJUSTABLE



For Round or Square Shank Tools

Polished Steel. Will hold Taps, Drills and Reamers.

Each

No. 174—3 in. Long. Opens $\frac{1}{4}$ in. Weight Each 3 Oz. \$0.60
Six in a Box.

For Round or Square Shank Tools

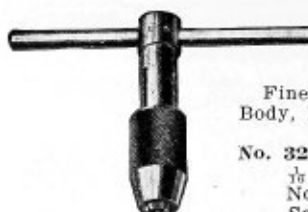
Polished Steel, Knurled Grip, with Spring Adjustment.

| Nos. | 91A | 91B |
|------------------------------|--------------------------------|--------------------------------|
| Capacity Square, Inches..... | $\frac{1}{4}$ to $\frac{3}{8}$ | $\frac{1}{2}$ to $\frac{1}{4}$ |
| Capacity Round, Inches..... | $\frac{1}{4}$ | $\frac{3}{8}$ |
| Length, Inches..... | 5 $\frac{3}{4}$ | 9 |
| Weight, Oz..... | 1 $\frac{1}{2}$ | 6 |
| Each..... | \$0.90 | 1.80 |

No. 91A, Three; No. 91B, One in a Box.

TAP WRENCHES

G. T. D. ADJUSTABLE



With Solid Handle

Fine Tool Steel Jaws, Forged Steel Body, Knurled Sleeve.

Each

No. 329—2 $\frac{1}{2}$ in. Shank, Takes $\frac{1}{8}$ to $\frac{3}{8}$ in. Hand Taps and Nos. 0 to 18 Machine Screw Taps.....\$0.75No. 333—3 $\frac{3}{8}$ in. Shank, Takes $\frac{1}{8}$ to $\frac{1}{2}$ in. Hand Taps and Nos. 14 to 30 Machine Screw Taps.... 1.25
Six in a Box.

G. T. D. RATCHET



With Sliding T Handles

Fine Tool Steel Jaws, Forged Steel Body, Knurled Sleeve.

Each

No. 338—4 in. Shank, Takes $\frac{1}{8}$ to $\frac{3}{8}$ in. Hand Taps and Nos. 0 to 18 Machine Screw Taps.....\$1.50No. 339—4 $\frac{1}{2}$ in. Shank, Takes $\frac{1}{8}$ to $\frac{1}{2}$ in. Hand Taps and Nos. 12 to 30 Machine Screw Taps....\$2.50
Six in a Box.

YANKEE RATCHET

Right and Left Hand and Rigid

Tool Steel Ratchets and Pawl, Hardened Steel Jaws Polished.

Each

No. 251—Length Over All 5 in., Outside Diameter of Chuck $\frac{1}{8}$ in., Holds Up to $\frac{1}{8}$ in. Taps, Weight Per Dozen 8 $\frac{1}{2}$ Lbs.....\$2.75No. 1251—Length Over All 13 in., Weight Per Dozen 10 $\frac{1}{4}$ Lbs.....3.50

The Knurled Thumb Piece at top of wrench affords a ready means of starting in and backing out the tap quickly. In the end of this thumb piece is a countersunk hole to use the tap wrench on lathe center when desired for holding small drills, etc. The cross arm can be readily withdrawn.

One in a Box.

GOODSELL-PRATT

With Solid Handles

Polished Steel, long Knurled Shell giving firm grip, Forged Steel Jaws, hardened and tempered, so designed that they will not break with any ordinary work.



| Nos. | 88 | 89 |
|----------------------------|-----------------|-----------------|
| Capacity, Inches..... | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Length Handle, Inches..... | 3 $\frac{1}{2}$ | 4 $\frac{1}{2}$ |
| Weight Each, Lbs..... | 3 | 4 $\frac{1}{2}$ |
| Each..... | \$0.65 | .85 |

One in a Box.

ROUND ADJUSTABLE DIES

MORSE

U. S. Standard Thread Furnished
Unless Otherwise Specified

Left Hand Dies are special.

Sizes, dimensions and threads not
listed are subject to special prices.

Carbon Steel

| Cutting Size, Inches | Number of Threads to Inch | | | No. 1185 No. 1187 No. 1189 | | |
|----------------------------|---------------------------|------------------|---------------------------------------|----------------------------|--------------------|--------|
| | U. S. Std. | S. A. E. Std. | U. S. Threads Also Furnished | Outside Diameter, Each | | |
| | | | | $\frac{1}{2}$ Inch | $\frac{3}{4}$ Inch | 1 Inch |
| $\frac{1}{16}$ | 64 | | 72 | \$0.80 | \$0.90 | |
| $\frac{1}{8}$ | 60 | | 72 | .70 | .80 | |
| $\frac{3}{16}$ | 50 | | 48 | .60 | .70 | |
| $\frac{1}{4}$ | 48 | | | .50 | .60 | |
| $\frac{5}{16}$ | 40 | | 32 | .50 | .60 | \$0.75 |
| $\frac{3}{8}$ | 40 | | | .50 | .60 | .75 |
| $\frac{7}{16}$ | 36 | | 32 | .50 | .60 | .75 |
| $\frac{1}{2}$ | 32 | | | .50 | .60 | .75 |
| $\frac{9}{16}$ | 24 | | 32 | .50 | .60 | .75 |
| $\frac{5}{8}$ | 24 | | | .50 | .60 | .75 |
| $\frac{11}{16}$ | 24 | | | .50 | .60 | .75 |
| $\frac{3}{4}$ | 24 | | 32 | .50 | .60 | .75 |
| $\frac{7}{8}$ | 24 | | | .50 | .60 | .75 |
| $\frac{15}{16}$ | 20 | 28 | 24, 27, 32 | .50 | .60 | .75 |
| | 18 | 24 | 20, 27, 32 | | .60 | .75 |
| | 16 | 24 | 20, 27 | | | .75 |
| | 14 | 20 | 24, 27 | | | .75 |

Carbon Steel

| Cutting Size, Inches | No. of Threads to Inch | | | No. 1196 No. 1200 No. 1203 No. 1207 | | | |
|----------------------------|------------------------|------------------|---------------------------------------|-------------------------------------|--------------------|--------------------|--------|
| | U. S. Std. | S. A. E. Std. | U. S. Threads Also Furnished | Outside Diameter, Each | | | |
| | | | | $1\frac{1}{8}$ In. | $1\frac{1}{2}$ In. | $1\frac{3}{4}$ In. | 2 In. |
| $\frac{1}{4}$ | 20 | 28 | 24, 27, 32 | \$1.25 | \$1.25 | \$1.50 | \$2.00 |
| $\frac{3}{8}$ | 18 | 24 | 20, 27, 32 | 1.25 | 1.25 | 1.50 | 2.00 |
| $\frac{1}{2}$ | 16 | 24 | 20, 27 | 1.25 | 1.25 | 1.50 | 2.00 |
| $\frac{5}{8}$ | 14 | 20 | 24, 27 | 1.25 | 1.25 | 1.50 | 2.00 |
| $\frac{3}{4}$ | 13 | 20 | 12, 24, 27 | 1.25 | 1.25 | 1.50 | 2.00 |
| $\frac{7}{8}$ | 12 | 18 | 27 | | 1.25 | 1.50 | 2.00 |
| $\frac{15}{16}$ | 11 | 18 | 12, 27 | | 1.25 | 1.50 | 2.00 |
| $\frac{1}{16}$ | 11 | 16 | | | | | 2.00 |
| $\frac{1}{8}$ | 10 | 16 | 12, 27 | | | | 2.00 |

| Cutting Size, Inches | No. of Threads to Inch | | | No. 1211 No. 1214 No. 1217 No. 1220 | | | |
|----------------------------|------------------------|------------------|---------------------------------------|-------------------------------------|--------------------|--------------------|--------|
| | U. S. Std. | S. A. E. Std. | U. S. Threads Also Furnished | Outside Diameter, Each | | | |
| | | | | 2 In. | $2\frac{1}{2}$ In. | $2\frac{3}{4}$ In. | 3 In. |
| $\frac{1}{4}$ | 20 | 28 | 24, 27, 32 | \$2.00 | \$3.00 | | |
| $\frac{3}{8}$ | 18 | 24 | 20, 27, 32 | 2.00 | 3.00 | | |
| $\frac{1}{2}$ | 16 | 24 | 20, 27 | 2.00 | 3.00 | | |
| $\frac{5}{8}$ | 14 | 20 | 24, 27 | 2.00 | 3.00 | | |
| $\frac{3}{4}$ | 13 | 20 | 12, 24, 27 | 2.00 | 3.00 | \$3.00 | |
| $\frac{7}{8}$ | 12 | 18 | 27 | 2.00 | 3.00 | 3.00 | |
| $\frac{15}{16}$ | 11 | 18 | 12, 27 | 2.00 | 3.00 | 3.00 | |
| $\frac{1}{16}$ | 11 | 16 | | 2.00 | 3.00 | 3.00 | |
| $\frac{1}{8}$ | 10 | 16 | 12, 27 | 2.00 | 3.00 | 3.00 | |
| $\frac{1}{4}$ | 9 | 14, 18 | 12, 27 | 2.00 | 3.00 | 3.00 | \$5.00 |
| $\frac{3}{8}$ | 9 | | | | 3.00 | 3.00 | 5.00 |
| $\frac{1}{2}$ | 8 | 14 | 12, 27 | | 3.00 | 3.00 | 5.00 |
| $\frac{5}{8}$ | 7 | 12 | | | | | 5.00 |
| $\frac{3}{4}$ | 7 | 12 | | | | | 5.00 |
| $\frac{7}{8}$ | 6 | 12 | | | | | 5.00 |
| $\frac{15}{16}$ | 6 | 12 | | | | | 5.00 |

ROUND ADJUSTABLE DIES

MORSE MACHINE SCREW

A. S. M. E. Standard

Left Hand Dies are special.
Sizes, dimensions and threads not listed
are subject to special prices.

Carbon Steel

| Size of Screw Gauge | Stand- ard No. of Thr'ds | Threads Also Furnished | No. 1191 | No. 1192 | No. 1193 |
|---------------------------|--------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------|
| | | | Each | | |
| | | | $\frac{1}{2}$ Inch Diam. | $\frac{3}{4}$ Inch Diam. | 1 Inch Diam. |
| 0 | 80 | | \$0.80 | \$0.90 | |
| 1 | 72 | 56, 64 | .80 | .90 | |
| 2 | 64 | 56 | .70 | .80 | |
| 3 | 56 | 48 | .60 | .70 | |
| 4 | 48 | 32, 36, 40 | .50 | .60 | |
| 5 | 44 | 36, 40 | .50 | .60 | |
| 6 | 40 | 32, 36 | .50 | .60 | \$0.75 |
| 7 | 36 | 30, 32 | .50 | .60 | .75 |
| 8 | 36 | 30, 32, 40 | .50 | .60 | .75 |
| 9 | 32 | 24, 30 | .50 | .60 | .75 |
| 10 | 30 | 24, 28, 32 | .50 | .60 | .75 |
| 12 | 28 | 24, 32 | .50 | .60 | .75 |
| 14 | 24 | 20 | .50 | .60 | .75 |
| 16 | 22 | 18, 20 | | .60 | .75 |
| 18 | 20 | 18 | | .60 | .75 |
| 20 | 20 | 16, 18 | | .60 | .75 |

For Brass Pipe

| Cutting Size | Thread | No. 1250 Fitting Stock No. 23. | No. 1251 Fitting Stock No. 25. | No. 1252 Fitting Stock No. 27. |
|-----------------|--------|--|---|---|
| | | 1 in. Diam. $\frac{3}{8}$ in. Thick | $1\frac{1}{8}$ in. Diam. $\frac{1}{4}$ in. Thick | $1\frac{3}{8}$ in. Diam. $\frac{1}{4}$ in. Thick |
| $\frac{1}{4}$ | 27, 40 | \$0.75 | | |
| $\frac{3}{8}$ | 27, 40 | .75 | | |
| $\frac{1}{2}$ | 27, 40 | .75 | | |
| $\frac{5}{8}$ | 27, 40 | .75 | | |
| $\frac{3}{4}$ | 27, 40 | | \$1.50 | |
| $\frac{7}{8}$ | 27, 40 | | | \$1.75 |

SOLID ROUND DIES

MORSE

No. 1175—Carbon Steel

Left Hand Dies are special.
U. S. form of thread always
furnished unless otherwise ordered.
Whitworth Standard threads furnished
if desired.
Sizes and threads not listed are
subject to special prices.



| Size of Die | | Cutting Size | Each |
|------------------|---------------------------|---|--------|
| Diam., Inches | Thick- ness, Inches | | |
| $\frac{5}{8}$ | $\frac{1}{4}$ | 4, 48; 6, 40; 8, 36; 10, 30; 12, 28; 14, 24 | \$0.40 |
| $\frac{3}{4}$ | $\frac{1}{4}$ | $\frac{1}{16}$, $\frac{3}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | .40 |
| 1 | $\frac{3}{8}$ | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | .75 |
| $1\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 1.25 |
| $1\frac{1}{4}$ | $\frac{5}{8}$ | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 1.50 |
| $1\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 3.00 |
| 2 | $\frac{7}{8}$ | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 3.00 |
| $2\frac{1}{4}$ | 1 | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 3.00 |
| $2\frac{3}{4}$ | $1\frac{1}{8}$ | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 3.00 |
| $3\frac{1}{4}$ | $1\frac{3}{4}$ | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 3.00 |
| $4\frac{1}{4}$ | 2 | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 3.00 |
| $5\frac{1}{4}$ | $2\frac{1}{4}$ | $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | 3.00 |

SOLID SQUARE BOLT DIES

MORSE

No. 1165—Carbon Steel

All sizes and threads not listed will be considered as special and subject to special prices.

United States form of thread always furnished unless otherwise ordered.



| Cutting Size, Inches | Threads to Inch U. S. S. | Outside Dimensions | | Each |
|----------------------|--------------------------|------------------------|-------------------|--------|
| | | Size of Square, Inches | Thickness, Inches | |
| 1/4 | 20 | 2 1/2 | 1/2 | \$1.80 |
| 5/16 | 18 | 2 1/2 | 1/2 | 1.80 |
| 3/8 | 16 | 2 1/2 | 1/2 | 1.80 |
| 7/16 | 14 | 2 1/2 | 1/2 | 1.80 |
| 1/2 | 13 | 2 1/2 | 3/4 | 1.80 |
| 5/8 | 12 | 2 1/2 | 3/4 | 1.90 |
| 3/4 | 11 | 2 1/2 | 3/4 | 2.00 |
| 7/8 | 11 | 2 1/2 | 3/4 | 2.10 |
| 1 | 10 | 2 1/2 | 3/4 | 2.20 |
| 1 1/8 | 10 | 2 1/2 | 3/4 | 2.30 |
| 1 1/4 | 9 | 2 1/2 | 3/4 | 2.40 |
| 1 3/8 | 9 | 2 1/2 | 3/4 | 2.55 |
| 1 1/2 | 8 | 2 1/2 | 1 | 2.70 |
| 1 5/8 | 7 | 2 1/2 | 1 | 3.00 |
| 1 3/4 | 7 | 2 1/2 | 1 | 3.30 |
| 1 7/8 | 6 | 2 1/2 | 1 | 3.60 |
| 2 | 6 | 3 | 1 | 3.90 |
| 2 1/8 | 5 1/2 | 3 | 1 | 4.20 |
| 2 1/4 | 5 | 3 | 1 1/4 | 5.40 |
| 2 3/8 | 5 | 3 1/2 | 1 1/2 | 6.50 |
| 2 1/2 | 4 1/2 | 3 1/2 | 2 | 7.50 |

SOLID PIPE DIES

MORSE

No. 1170—Carbon Steel

Briggs Standard, Taper 3/4 inch to the foot. Left Hand Dies and Sizes, Dimensions and Threads not Listed are Subject to Special Prices.



| Cutting Size Pipe, Inches | Size of Square—Thickness—Each | | | | |
|---------------------------|-------------------------------|--------------------------------|----------------------------|--------------------------------|------------------------------|
| | 2 in. Square 1/4 in. Thick | 2 1/2 in. Square 3/8 in. Thick | 3 in. Square 1/2 in. Thick | 3 1/2 in. Square 3/4 in. Thick | 5 in. Square 1 1/4 in. Thick |
| 1/8 | *\$1.80 | *\$1.80 | | | |
| 1/4 | 1.90 | * 1.90 | | | |
| 3/8 | 2.10 | * 2.10 | | | |
| 1/2 | 2.40 | * 2.40 | *\$3.10 | | |
| 3/4 | | * 3.00 | * 3.45 | | |
| 1 | | 3.60 | 3.75 | \$5.00 | *\$5.00 |
| 1 1/4 | | | 5.40 | 6.50 | * 6.50 |
| 1 1/2 | | | | 7.50 | * 7.50 |
| 2 | | | | 8.50 | 8.50 |
| 2 1/2 | | | | | \$12.50 |
| 3 | | | | | 15.00 |

*These Dies are thick enough to cut American (Briggs) Standard.

SQUARE PIPE DIES

Q AND E

With Inserted Tool Steel Chasers.

Will interchange with all makes of Stocks using Solid Dies. Each

No. 0—2x2x1/2 in., Cutting Sizes 1/8, 1/4, 3/8 and 1/2 in. \$1.40

No. 1—2 1/2x2 1/2x3/4 in., Cutting Sizes 1/8, 1/4, 3/8, 1/2, 3/4 and 1 in. 1.60

No. 1 1/2—3x3x3/4 in., Cutting Sizes 1/4, 3/8, 1/2, 3/4, 1 and 1 1/4 in. 2.00

No. 2—4x4x3/8 in., Cutting Sizes 1 1/4, 1 1/2 and 2 in. 2.50

Note—State Size when Ordering.



SCREW PLATE DIES

MORSE

No. 1155—Carbon Steel

All Sizes of Dies not listed and Dies with other than standard number of threads per inch furnished at special prices.

U. S. form of thread always furnished unless otherwise ordered.

S. A. E. Standard threads furnished at regular prices.



| Size | Per Pair | Cutting Sizes, Inches |
|-------|----------|-----------------------|
| No. 1 | \$0.40 | 1/8 to 1/4 by 32nds. |
| A | 1.00 | 1/4 to 5/8 by 16ths. |
| B | 1.25 | 5/8 to 7/8 by 16ths. |
| C | 1.75 | 7/8 to 1 by 16ths. |
| D | 2.00 | 1 to 1 1/2 by 8ths. |
| E | 3.00 | 1 1/2 to 2 by 8ths. |

DIE HOLDERS

MORSE



No. 1051—For Holding No. 1155 Style Dies.

| Size | Each | Length, Inches | Capacity, Inches |
|-------|--------|----------------|------------------|
| No. 1 | \$1.60 | 6 1/2 | 1/8 to 1/4 |
| A | 2.50 | 13 3/4 | 1/4 to 5/8 |
| B | 3.25 | 19 | 5/8 to 7/8 |
| C | 4.00 | 21 1/2 | 7/8 to 1 |
| D | 5.00 | 28 3/4 | 1 to 1 1/2 |
| E | 15.00 | 40 5/8 | 1 1/2 to 2 |

MORSE



No. 1180—For Holding Round Dies.

| Size | Each | Length, Inches | Holding Round Dies. | |
|------|--------|----------------|-----------------------|-------------------|
| | | | Outside Diam., Inches | Thickness, Inches |
| 21 | \$0.40 | 5 | 5/8 | 1/4 |
| 22 | .50 | 7 3/8 | 1 1/8 | 3/8 |
| 23 | 1.00 | 10 1/4 | 1 | 1/2 |
| 25 | 1.25 | 12 1/8 | 1 1/8 | 3/4 |
| 26 | 1.25 | 14 1/8 | 1 1/2 | 1 |
| 27 | 1.50 | 14 1/8 | 1 3/4 | 1 1/4 |
| 28 | 1.50 | 18 | 1 3/4 | 1 1/2 |
| 29 | 1.50 | 22 | 2 | 1 3/4 |
| 30 | 1.75 | 26 | 2 1/4 | 2 |
| 31 | 1.75 | 30 | 2 1/2 | 2 1/4 |
| 32 | 2.25 | 42 | 3 | 3 |

SCREW PLATES

MORSE



Style 1159—Without Taps.

Per Set

No. 5—Plate A, with 3 Pair Dies, Cutting 1/4-20, 3/8-16, 1/2-13 \$ 5.00

No. 6—Plate B, with 4 Pair Dies, Cutting 5/8-16, 1 1/2-13, 3/4-11, 3/4-10. 8.00

No. 7—Plate C, with 4 Pair Dies, Cutting 1 1/2-13, 3/4-11, 3/4-10, 7/8-9. 10.00

No. 8—Plate D, with 4 Pair Dies, Cutting 7/8-9, 1-8, 1 1/4-7, 1 1/4-7. 13.00

No. 9—Plate E, with 6 Pair Dies, Cutting 1 3/8-6, 1 1/2-6, 1 5/8-5 1/2, 1 3/4-5, 1 7/8-5, 2-4 1/2. 33.00

One Set in a Box.

SCREW PLATES

MORSE

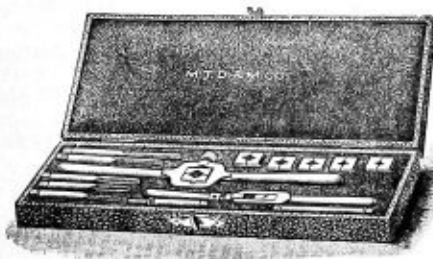


Style 1161—U. S. Standard Thread

| | Per Set |
|--|---------|
| No. 10—3 Sizes, Plug Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{3}{8}$ -16 and $\frac{1}{2}$ -13 Threads, with $6\frac{1}{2}$ in. Stock... | \$ 6.80 |
| No. 11—Same as Set No. 10 with 12 $\frac{3}{4}$ in. Adjustable Tap Wrench..... | 9.80 |
| No. 12—4 Sizes, Plug Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{3}{8}$ -16, $\frac{1}{2}$ -13 and $\frac{3}{4}$ -11 Threads, with $6\frac{1}{2}$ in. Stock..... | 8.50 |
| No. 13—Same as Set No. 12 with 12 $\frac{3}{4}$ in. Adjustable Tap Wrench..... | 11.50 |
| No. 14—4 Sizes, Plug Taps and Dies, Cutting $\frac{3}{8}$ -16, $\frac{1}{2}$ -13, $\frac{3}{4}$ -11 and $\frac{1}{4}$ -10 Threads, Complete with 19 in. Stock..... | 11.00 |
| No. 15—Same as Set No. 14 with One Each 12 $\frac{3}{4}$ and 17 $\frac{1}{2}$ in. Adjustable Tap Wrenches..... | 18.00 |
| No. 16—6 Sizes, Plug Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{3}{8}$ -16, $\frac{1}{2}$ -13, $\frac{3}{4}$ -11, $\frac{1}{4}$ -10 and $\frac{1}{8}$ -9 Threads, with 19 in. Stock..... | 14.75 |
| No. 17—Same as Set No. 16 with One Each 12 $\frac{3}{4}$ and 17 $\frac{1}{2}$ in. Adjustable Tap Wrench..... | 21.75 |
| No. 18—4 Sizes, Plug Taps and Dies, Cutting $\frac{1}{2}$ -13, $\frac{3}{4}$ -11, $\frac{1}{4}$ -10 and $\frac{1}{8}$ -9 Threads, with 21 $\frac{3}{4}$ in. Stock..... | 14.25 |
| No. 19—Same as Set No. 18, with 17 $\frac{1}{2}$ in. Adjustable Tap Wrench..... | 18.25 |
| No. 20—6 Sizes, Plug Taps and Dies, Cutting $\frac{3}{8}$ -16, $\frac{1}{2}$ -13, $\frac{3}{4}$ -11, $\frac{1}{4}$ -10, $\frac{1}{8}$ -9 and 1-8 Threads, with 21 $\frac{3}{4}$ in. Stock..... | 19.20 |
| No. 21—Same as Set No. 20, with One Each 12 $\frac{3}{4}$ and 17 $\frac{1}{2}$ in. Adjustable Tap Wrenches..... | 26.25 |
| No. 22—4 Sizes, Plug Taps and Dies, Cutting $\frac{7}{8}$ -9, 1-8, 1 $\frac{1}{4}$ -7 and 1 $\frac{1}{2}$ -7 Threads with 28 $\frac{3}{4}$ in. Stock..... | 20.10 |
| No. 23—Same as Set No. 22, with 23 in. Adjustable Tap Wrenches..... | 25.10 |
| No. 24—5 Sizes, Plug Taps and Dies, Cutting $\frac{7}{8}$ -9, 1-8, 1 $\frac{1}{4}$ -7, 1 $\frac{1}{2}$ -7 and 1 $\frac{3}{8}$ -6 Threads, with 28 $\frac{3}{4}$ in. Stock..... | 26.00 |
| No. 25—Same as Set No. 24, with 23 in. Adjustable Tap Wrench..... | 31.00 |

One Set in a Box.

MORSE SMALL FRACTIONAL SETS

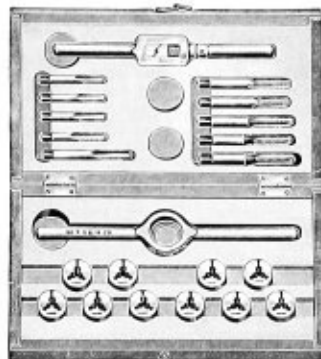


Style 1158—For Model Makers and Jewelers Use

| | Per Set |
|--|---------|
| No. 1—5 Sizes, Plug Taps and Dies, Cutting $\frac{1}{8}$ -40, $\frac{3}{16}$ -36, $\frac{1}{16}$ -24, $\frac{1}{8}$ -24 and $\frac{1}{4}$ -20 Threads, with $6\frac{1}{2}$ in. Stock, in Wooden Box..... | \$4.50 |
| No. 2—Same as Set No. 1, with 6 in. Adjustable Tap Wrench..... | 6.00 |
| No. 3—6 Sizes, Plug Taps and Dies, Cutting $\frac{1}{16}$ -64, $\frac{1}{8}$ -40, $\frac{3}{16}$ -36, $\frac{1}{16}$ -24, $\frac{1}{8}$ -24 and $\frac{1}{4}$ -20 Threads, with $6\frac{1}{2}$ in. Stock and 6 in. Adjustable Tap Wrench, in Morocco Case..... | 6.75 |

SCREW PLATES

MORSE ROUND ADJUSTABLE DIE

Style 1264—Fractional Sizes $\frac{1}{16}$ in. Diameter Dies

| | Per Set |
|---|---------|
| No. 51—5 Sizes, Plug Taps and Dies, Cutting $\frac{1}{8}$ -40, $\frac{3}{16}$ -36, $\frac{1}{16}$ -24, $\frac{1}{8}$ -24 and $\frac{1}{4}$ -20 Threads, with 7 $\frac{3}{8}$ in. Stock and 5 $\frac{1}{2}$ in. Adjustable Tap Wrench.... | \$5.75 |
| No. 52—6 Sizes, Plug Taps and Dies, Cutting $\frac{1}{8}$ -40, $\frac{3}{16}$ -36, $\frac{1}{16}$ -24, $\frac{1}{8}$ -24, $\frac{1}{4}$ -20 and $\frac{3}{8}$ -18 Threads, with 7 $\frac{3}{8}$ in. Stock and 6 in. Adjustable Tap Wrench..... | 6.50 |
| No. 53—5 Sizes, Plug Taps and Dies, Cutting $\frac{1}{8}$ -64, $\frac{1}{16}$ -40, $\frac{3}{16}$ -24, $\frac{1}{8}$ -20 and $\frac{1}{4}$ -18 Threads, with 7 $\frac{3}{8}$ in. Stock and 6 in. Adjustable Tap Wrench..... | 5.75 |
| No. 54—8 Sizes, Plug Taps and Dies, Cutting $\frac{1}{8}$ -64, $\frac{3}{16}$ -50, $\frac{1}{8}$ -40, $\frac{3}{16}$ -36, $\frac{1}{16}$ -24, $\frac{1}{8}$ -24, $\frac{1}{4}$ -20 and $\frac{3}{8}$ -18 Threads, with 7 $\frac{3}{8}$ in. Stock and 6 in. Adjustable Tap Wrench..... | 8.50 |

Style 1265—A. S. M. E. Standard Machine Screw Sizes $\frac{1}{16}$ in. Diameter Dies

| | Per Set |
|---|---------|
| No. 55—5 Sizes, Plug Taps and Dies, Cutting 4-48, 6-40, 8-36, 10-30 and 12-28 Threads, with 7 $\frac{3}{8}$ in. Stock and 5 $\frac{1}{2}$ in. Adjustable Tap Wrench.... | 5.65 |
| No. 56—6 Sizes, Plug Taps and Dies, Cutting 4-48, 6-40, 8-36, 10-30, 12-28 and 14-20 Threads, with 7 $\frac{3}{8}$ in. Stock and 5 $\frac{1}{2}$ in. Adjustable Tap Wrench..... | 6.25 |
| No. 57—7 Sizes, Plug Taps and Dies, Cutting 4-48, 6-40, 8-36, 10-30, 12-28, 14-24 and 16-22 Threads, with 7 $\frac{3}{8}$ in. Stock and 5 $\frac{1}{2}$ in. Adjustable Tap Wrench..... | 6.75 |
| No. 58—8 Sizes, Plug Taps and Dies, Cutting 4-48, 6-40, 8-36, 10-30, 12-28, 14-24, 16-22 and 18-20 Threads, with 7 $\frac{3}{8}$ in. Stock and 6 in. Adjustable Tap Wrench..... | 7.30 |
| No. 59—8 Sizes, Plug Taps and Dies, Cutting 2-64, 3-56, 4-48, 6-40, 8-36, 10-30, 12-28 and 14-24 Threads, with 7 $\frac{3}{8}$ in. Stock and 5 $\frac{1}{2}$ in. Adjustable Tap Wrench..... | 7.30 |
| No. 60—10 Sizes, Plug Taps and Dies, Cutting 2-64, 3-56, 4-48, 6-40, 8-36 10-30, 12-28, 14-24, 16-22 and 18-20 Threads, with 7 $\frac{3}{8}$ in. Stock and 6 in. Adjustable Tap Wrench..... | 8.00 |

Style 1268—A. S. M. E. Machine Screw Sizes, 1 in. Diameter Dies

| | Per Set |
|--|---------|
| No. 67—5 Sizes, Plug Taps and Dies, Cutting 12-28, 14-24, 16-22, 18-20 and 20-20 Threads, with 10 $\frac{1}{4}$ in. Stock..... | \$6.00 |
| No. 68—4 Sizes, Plug Taps and Dies, Cutting 14-24, 16-22, 18-20 and 20-20 Threads, with 10 $\frac{1}{4}$ in. Stock..... | 5.00 |

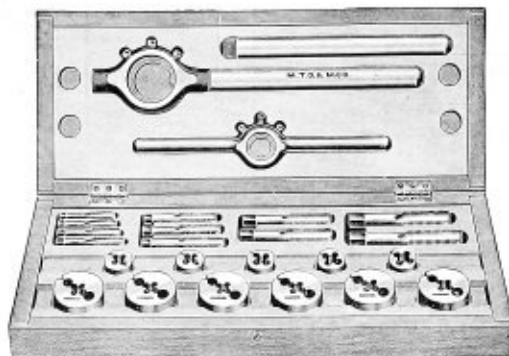
Style 1268—Fractional Sizes U. S. S. Thread, 1 in. Diameter Dies

| | Per Set |
|--|---------|
| No. 69—5 Sizes, Plug Taps and Dies, Cutting $\frac{1}{8}$ -24, $\frac{1}{4}$ -20, $\frac{3}{8}$ -18, $\frac{1}{2}$ -16 and $\frac{3}{4}$ -14 Threads, with 10 $\frac{1}{4}$ in. Stock..... | \$6.60 |
| No. 70—4 Sizes, Plug Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{3}{8}$ -18, $\frac{1}{2}$ -16 and $\frac{3}{4}$ -14 Threads, with 10 $\frac{1}{4}$ in. Stock..... | 5.70 |

All Above, One Set in a Box.

SCREW PLATES

MORSE ROUND ADJUSTABLE DIE



No. 83 Set.

Style 1271—U. S. Standard Threads

1 $\frac{1}{8}$ Inch Diameter Dies

| | Per Set |
|---|---------|
| No. 79—5 Sizes, Plug Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{1}{8}$ -18, $\frac{3}{16}$ -16, $\frac{1}{4}$ -14 and $\frac{1}{2}$ -13 Threads with 12 $\frac{1}{2}$ in. Stock | \$8.40 |
| No. 80—4 Sizes, Plug Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{1}{8}$ -18, $\frac{3}{16}$ -16 and $\frac{1}{2}$ -13 Threads, with 12 $\frac{1}{2}$ in. Stock, without Tap Wrench | 7.00 |
| No. 81—3 Sizes, Plug Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{3}{16}$ -16 and $\frac{1}{2}$ -13 Threads, with 12 $\frac{1}{2}$ in. Stock, without Tap Wrench | 5.75 |

Style 1274—S. A. E. Standard Threads

1 $\frac{1}{8}$ Inch Diameter Dies

| | Per Set |
|---|---------|
| No. 82—5 Sizes, Plug Taps and Dies, Cutting $\frac{1}{4}$ -28, $\frac{1}{8}$ -24, $\frac{3}{16}$ -20 and $\frac{1}{2}$ -20 Threads, with 12 $\frac{1}{2}$ in. Stock, without Tap Wrench | \$8.40 |

With 1 $\frac{1}{8}$ and 2 $\frac{1}{4}$ Inch Dies

| | Per Set |
|--|---------|
| No. 83—11 Plug Taps and Dies Cutting $\frac{1}{4}$ -28, $\frac{1}{8}$ -24, $\frac{3}{16}$ -24, $\frac{1}{2}$ -20, $\frac{1}{4}$ -20, $\frac{1}{8}$ -18, $\frac{3}{16}$ -18, $\frac{1}{4}$ -16, $\frac{3}{16}$ -16, $\frac{1}{2}$ -14 and 1-14 Threads, with One Each 12 $\frac{1}{2}$ and 26 inch Stocks | \$27.00 |

These sets have 1 $\frac{1}{8}$ inch outside diameter dies for cutting Sizes $\frac{1}{4}$ to $\frac{1}{2}$ inch and 2 $\frac{1}{4}$ inch dies for cutting $\frac{3}{8}$ to 1 inch. The 12 $\frac{1}{2}$ inch Stock Holds 1 $\frac{1}{8}$ inch and the 26 inch Stock Holds 2 $\frac{1}{4}$ inch Dies. No Tap Wrenches are furnished with this set.

Style 1277—U. S. Standard Threads

1 $\frac{3}{4}$ Inch Diameter Dies

| | Per Set |
|---|---------|
| No. 88—7 Sizes, Plug Taps and Dies Cutting $\frac{1}{4}$ -20, $\frac{1}{8}$ -18, $\frac{3}{16}$ -16, $\frac{1}{4}$ -14, $\frac{1}{2}$ -13, $\frac{3}{4}$ -11 and $\frac{1}{2}$ -10 Threads, with 18 in. Stock, without Tap Wrench | \$16.00 |
| No. 89—5 Sizes, Plug Taps and Dies, Cutting $\frac{3}{8}$ -16, $\frac{1}{4}$ -14, $\frac{1}{2}$ -13, $\frac{3}{4}$ -11 and $\frac{1}{2}$ -10 Threads, with 18 inch Stock, without Tap Wrench | 13.00 |
| No. 90—3 Sizes, Plug Tap and Dies, Cutting $\frac{1}{2}$ -13, $\frac{3}{4}$ -11 and $\frac{1}{2}$ -10 Threads, with 18 inch Stock, without Tap Wrench | 9.25 |

Each of the above sets are put up in nicely finished hinged wooden box with separate compartment for each Tap, Die and Holder.

Style 1285—U. S. Standard Threads

2 Inch Diameter Dies

| | Per Set |
|--|---------|
| No. 102—7 Sizes, Taper Taps and Dies, Cutting $\frac{1}{4}$ x20, $\frac{1}{8}$ -18, $\frac{3}{16}$ -16, $\frac{1}{4}$ -14, $\frac{1}{2}$ -13, $\frac{3}{4}$ -11 and $\frac{1}{2}$ -10 Threads, with Stock 22 inches Long, without Tap Holder | \$16.00 |
| No. 103—Same as Set No. 100 with 12 $\frac{3}{4}$ in. Adjustable Tap Wrench | 19.00 |

Style 1288—U. S. Standard Threads

2 $\frac{1}{2}$ inch Diameter Dies

| | Per Set |
|---|---------|
| No. 114—5 Sizes, Taper Taps and Dies, Cutting $\frac{1}{2}$ -13, $\frac{3}{4}$ -11, $\frac{1}{4}$ -10, $\frac{3}{8}$ -9 and 1-8 Threads, with 30 inch Stock, without Tap Wrench | \$17.50 |
| No. 115—Same as Set No. 114, with 17 $\frac{1}{2}$ in. Adjustable Tap Wrench | 21.75 |

Style 1291—U. S. Standard Threads

3 Inch Diameter Dies

| | Per Set |
|--|---------|
| No. 132—4 Sizes, Taper Taps and Dies, Cutting 1 $\frac{1}{8}$ -7, 1 $\frac{1}{4}$ -7, 1 $\frac{3}{8}$ -6 and 1 $\frac{1}{2}$ -6 Threads, with Stock 42 inches Long, without Tap Wrench | \$37.25 |
| No. 133—Same as Set No. 132, with 23 inch Adjustable Tap Wrench | 45.50 |
| No. 138—6 Sizes, Taper Taps and Dies, Cutting $\frac{7}{8}$ -9, 1-8, 1 $\frac{1}{8}$ -7, 1 $\frac{1}{4}$ -7, 1 $\frac{3}{8}$ -6, 1 $\frac{1}{2}$ -6 Threads, with Stock 42 inches Long, without Tap Wrench | 49.50 |
| No. 139—Same as Set No. 138, with 23 inch Adjustable Tap Wrench | 58.00 |

Style 1293—U. S. Standard Threads

With 2 and 3 Inch Diameter Dies

| | Per Set |
|--|---------|
| No. 149—11 Sizes, Taper Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{1}{8}$ -18, $\frac{3}{16}$ -16, $\frac{1}{4}$ -14, $\frac{1}{2}$ -13, $\frac{3}{4}$ -11, $\frac{1}{2}$ -10, $\frac{3}{8}$ -9, 1-8, 1 $\frac{1}{8}$ -7, 1 $\frac{1}{4}$ -7, 1 $\frac{3}{8}$ -6 and 1 $\frac{1}{2}$ -6 Threads, with 22 and 42 inch Stocks, no Tap Wrench | \$52.00 |
| No. 150—Same as No. 149 Set, with 12 $\frac{3}{4}$ inch Adjustable Tap Wrench | 63.50 |
| $\frac{1}{4}$ to $\frac{3}{4}$ in. Dies are 2 in. Diameter, $\frac{3}{8}$ to 1 $\frac{1}{4}$ in. Dies are 3 in. Diameter. | |

Style 1296—U. S. Standard Threads

With 1 $\frac{1}{2}$, 2 $\frac{1}{2}$ and 3 Inch Diameter Dies

| | Per Set |
|--|---------|
| No. 160—13 Sizes, Taper Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{1}{8}$ -18, $\frac{3}{16}$ -16, $\frac{1}{4}$ -14, $\frac{1}{2}$ -13, $\frac{3}{4}$ -11, $\frac{1}{2}$ -10, $\frac{3}{8}$ -9, 1-8, 1 $\frac{1}{8}$ -7, 1 $\frac{1}{4}$ -7, 1 $\frac{3}{8}$ -6 and 1 $\frac{1}{2}$ -6 Threads, with One Each 14 $\frac{1}{8}$, 30 and 42 inch Stocks, no Tap Wrench | \$64.50 |
| No. 161—Same as Set No. 160 with Three Adjustable Tap Wrenches, One Each 12 $\frac{3}{4}$, 17 $\frac{1}{2}$ and 23 in. Long | 76.00 |
| $\frac{1}{4}$ to $\frac{1}{2}$ in. Dies are 1 $\frac{1}{2}$ in. Diameter; $\frac{3}{8}$ to 1 in. are 2 $\frac{1}{2}$ in. Diameter, 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ in. are 3 in. Diameter. | |

SCREW PLATES

LITTLE GIANT

Details of Little Giant Screw Plates

Little Giant dies are made in two pieces, each piece having two cutting edges. The two pieces can be easily and quickly removed from the collet, and the cutting edges sharpened on a thin emery wheel.

The collet consists of a cap with slot beveled to the same angle as the edges of the die, and a screw guide. A small screw at the end of each slot allows adjustment to exact size.

After the die is placed in the cap the screw guide wedges it tight. Thus the die is held in a positive three-angle grip, and the whole (die and collet) is practically as rigid as a solid die.

Every Little Giant Screw Plate is put up in an oiled and varnished hardwood box.



The Little Giant Two-Piece Adjustable Die.

Note the Beveled Edges.



Sectional View of Little Giant Die and Collet.



U. S. Standard Threads

Per Set

- No. 1—5 Sizes Taper Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14 and $\frac{1}{2}$ -13 Threads, 2 in. Diameter Collets, One 14 in. Stock, One 11 in. Adjustable Tap Wrench, One Bit Brace Shank, in Hardwood Case, Weight Per Set 9 Lbs. \$18.50



U. S. Standard Threads

Per Set

- No. 2—5 Sizes Taper Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14 and $\frac{1}{2}$ -13 Threads, 2 in. Diameter Collets, One 23 in. Stock, One 15 in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 17 Lbs. \$22.75
- No. 3—4 Sizes Taper Taps and Dies, Cutting $\frac{5}{16}$ -11, $\frac{3}{8}$ -10, $\frac{7}{16}$ -9 and 1-8 Threads, 2 in. Diameter Collets, One 26 in. Stock, One 19 in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 18 Lbs. 26.25
- No. 4—5 Sizes Taper Taps and Dies, Cutting $\frac{1}{2}$ -13, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10, $\frac{7}{8}$ -9 and 1-8 Threads, 2 in. Diameter Collets, One 26 in. Stock, One 19 in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 20 1/2 Lbs. 29.25



U. S. Standard Threads

Per Set

- No. 5—7 Sizes Taper Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -13, $\frac{5}{8}$ -11 and $\frac{3}{4}$ -10 Threads, 2 in. Diameter Collets, One 23 in. Stock, One 15 in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 20 Lbs. \$27.50



U. S. Standard Threads

Per Set

- No. 5 1/2—8 Sizes, Taper Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -13, $\frac{5}{8}$ -12, $\frac{3}{4}$ -11, $\frac{7}{8}$ -10 Threads, 2 in. Diameter Collets, One 23 in. Stock, One 15 in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 22 Lbs. \$30.75



U. S. Standard Threads

Per Set

- No. 6—7 Sizes Taper Taps and Dies, Cutting $\frac{5}{16}$ -16, $\frac{3}{8}$ -14, $\frac{1}{2}$ -13, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10, $\frac{7}{8}$ -9 and 1-8 Threads, 2 in. Diameter Collets, One 26 in. Stock, One 19 in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 23 Lbs. \$35.00



U. S. Standard Threads

Per Set

- No. 7—9 Sizes Taper Taps and Dies, Cutting $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{8}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -13, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10, $\frac{7}{8}$ -9, and 1-8 Threads, 2 in. Diameter Collets, One 26 in. Stock, Two Adjustable Tap Wrenches, 11 1/2 and 19 1/2 in. Long, in Hardwood Case, Weight Per Set 27 Lbs. \$42.00

All Little Giant Screw Plates on this page are put up in special corrugated cartons for reshipping.

SCREW PLATES

LITTLE GIANT



U. S. Standard Threads

Per Set

No. 71½—10 Sizes Taper Taps and Dies, Cutting ¼-20, ⅜-18, ½-16, ⅞-14, 1-13, 1¼-12, 1½-11, 1¾-10, 2-9 and 1-8 Threads, 2¼ in. Diameter Collets, One 26 in. Stock, Two Adjustable Tap Wrenches 11½ and 19½ in. Long, in Hardwood Case, Weight Per Set 29 Lbs.\$44.25

LITTLE GIANT AUTOMOBILE



S. A. E. Standard Threads

Per Set

Universally adopted by the Automobile Manufacturers and no garage or auto repair shop should be without a screw plate containing these sizes.

No. 31—5 Sizes Plug Taps and Dies, S. A. E. Standard, ¼-28, ⅜-24, ½-20, ¾-18, 1-14 Threads, 2 in. Diameter Collets, One 14½ in. Stock, One 11 in. Adjustable Tap Wrench and One Bit Brace Die Holder, in Hardwood Box, Weight Per Set 8 Lbs.\$18.50



S. A. E. Standard Threads

Per Set

No. 35—7 Sizes Plug Taps and Dies, S. A. E. Standard, Cutting ¼x28, ⅜-24, ½-20, ¾-18, 1-14 Threads, 2¼ in. Diameter Collets, One 23 in. Stock, One 15 in. Adjustable Tap Wrench, in Hardwood Box, Weight Per Set 20 Lbs.\$27.50



S. A. E. Standard Threads

Per Set

No. 37—9 Sizes Plug Taps and Dies, S. A. E. Standard, Cutting ¼x28, ⅜-24, ½-20, ¾-18, 1-14 Threads, 2¼ in. Diameter Collets, One 26 in. Stock, One 11 in. and One 19 in. Adjustable Tap Wrench, in Hardwood Box, Weight Per Set 27 Lbs.\$42.00

LITTLE GIANT COMBINATION

Little Giant Adjustable and Reversible Dies

Both U. S. Standard and S. A. E. Standard Threads

Each Assortment contains the following: U. S. Taper Taps, S. A. E. Plug Taps and Little Giant Dies for Each Size; 2 in. Diameter Collets for Sizes ½ in. and Smaller and 2¼ in. Diameter for Sizes ⅞ in. and Larger; Bit Brace Shank Fitting 2 in. Diameter Collets, in addition to Stocks and Taps Specified.



U. S. and S. A. E. Standard Threads

Per Set

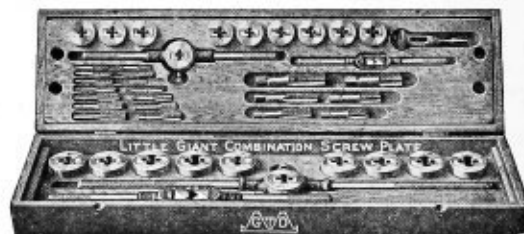
No. 310—10 Sizes Taps and Dies, 5 Sizes U. S. S. ¼-20, ⅜-18, ½-16, ⅞-14, 1-13 and S. A. E. Std. ¼-28, ⅜-24, ½-20, ¾-18, 1-14½ in. Stock, 11½ in. Adjustable Tap Wrench, Bit Brace Shank, in Hardwood Case, Weight Set 14 Lbs.\$29.25



U. S. and S. A. E. Standard Threads

Per Set

No. 311—16 Sizes Taps and Dies, 8 Sizes U. S. Standard ¼-20, ⅜-18, ½-16, ⅞-14, 1-13, 1¼-12, 1½-11, 1¾-10 and S. A. E. Standard ¼-28, ⅜-24, ½-20, ¾-18, 1-14½ and 23 in. Long, Two Adjustable Tap Wrenches 11½ and 15 in. Long, One Bit Brace Shank, in Hardwood Case, Weight Set 31 Lbs.\$56.00



U. S. and S. A. E. Standard Threads

Per Set

No. 312—20 Sizes Taps and Dies, 10 Sizes U. S. Standard ¼-20, ⅜-18, ½-16, ⅞-14, 1-13, 1¼-12, 1½-11, 1¾-10, 2-9, 1-8 and S. A. E. Standard ¼-28, ⅜-24, ½-20, ¾-18, 1-14½ and 29 in. Long, Two Adjustable Tap Wrenches 11½ and 19½ in. Long, One Bit Brace Shank, in Hardwood Case, Weight Per Set 35 Lbs.\$79.00

Little Giant Dies are made in two pieces, each piece having two cutting edges. The two pieces can be easily and quickly removed from the collet, and the cutting edges sharpened on a thin emery wheel.

All Little Giant Screw Plates on this page are put up in special corrugated cartons for reshipping.

SCREW PLATES

LITTLE GIANT SINGLE STOCK



Small Fractional Sizes

- No. A1**—5 Sizes Plug Taps and Dies, Cutting $\frac{1}{16}$ -40, $\frac{1}{8}$ -36, $\frac{1}{4}$ -24, $\frac{3}{8}$ -24 and $\frac{1}{2}$ -20 Threads, $1\frac{1}{4}$ in. Diameter Collets, One $7\frac{1}{2}$ in. Stock, One $7\frac{1}{2}$ in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set $2\frac{1}{2}$ Lbs. **\$11.50**
- No. A1½**—7 Sizes, Plug Taps and Dies, Cutting $\frac{1}{16}$ -64, $\frac{1}{8}$ -50, $\frac{1}{4}$ -40, $\frac{3}{8}$ -36, $\frac{1}{2}$ -24, $\frac{3}{4}$ -24, $\frac{1}{2}$ -20 Threads, $1\frac{1}{4}$ in. Diameter Collets, One $7\frac{1}{2}$ in. Stock, One $7\frac{1}{2}$ in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 3 Lbs. **14.50**
- No. A2**—7 Sizes Plug Taps and Dies, Cutting $\frac{1}{16}$ -48, $\frac{1}{8}$ -40, $\frac{1}{4}$ -36, $\frac{3}{8}$ -24, $\frac{1}{2}$ -24, $\frac{3}{4}$ -20 Threads, $1\frac{1}{4}$ in. Diameter Collets, One $7\frac{1}{2}$ in. Stock, One $7\frac{1}{2}$ in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 3 Lbs. **14.50**
- No. A2½**—10 Sizes Plug Taps and Dies, Cutting $\frac{1}{16}$ -64, $\frac{1}{8}$ -60, $\frac{1}{4}$ -50, $\frac{3}{8}$ -48, $\frac{1}{2}$ -40, $\frac{3}{4}$ -40, $\frac{1}{2}$ -36, $\frac{3}{8}$ -24, $\frac{1}{4}$ -24, $\frac{1}{2}$ -20 Threads, $1\frac{1}{4}$ in. Diameter Collets, One $7\frac{1}{2}$ in. Stock, One $7\frac{1}{2}$ in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 4 Lbs. **19.50**
- No. A3**—10 Sizes Plug Taps and Dies, Cutting $\frac{1}{16}$ -48, $\frac{1}{8}$ -40, $\frac{1}{4}$ -40, $\frac{3}{8}$ -36, $\frac{1}{2}$ -32, $\frac{3}{4}$ -24, $\frac{1}{2}$ -24, $\frac{3}{8}$ -24, $\frac{1}{4}$ -24, $\frac{1}{2}$ -20 Threads, $1\frac{1}{4}$ in. Diameter Collets, One $7\frac{1}{2}$ in. Stock, One $7\frac{1}{2}$ in. Adjustable Tap Wrench, in Hardwood Case, Weight Per Set 4 Lbs. **19.50**

G. T. D. "BUTTON" DIE



D Assortment ($\frac{1}{16}$ in. Diameter Dies)

Adjustable Round Split Dies and Plug Taps. "D" Stock ($6\frac{1}{4}$ in. long). Tap Wrench No. 340, made by inserting adjustable socket in stock.

Machine Screw Sizes

- No. D5**—5 Sizes, 4-36, 6-32, 8-32, 10-24, 12-24, Weight $1\frac{1}{4}$ Lbs. **\$ 8.00**
- No. D6**—6 Sizes, 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, Weight $1\frac{1}{4}$ Lbs. **9.00**
- No. D7**—7 Sizes, 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, Weight $1\frac{1}{4}$ Lbs. **10.00**
- No. D10**—10 Sizes, 2-56, 3-48, 4-36, 5-36, 6-32, 8-32, 10-24, 12-24, 14-20, Weight 2 Lbs. **13.00**

Fractional Sizes, 1 in. Diameter Die

- No. F6**—6 Sizes, $\frac{1}{8}$ -40, $\frac{1}{4}$ -24, $\frac{1}{2}$ -20, $\frac{3}{4}$ -18, $\frac{1}{2}$ -16, $\frac{3}{8}$ -14, Stock 9 in. Long, 9 in. Adjustable Tap Wrench, Weight $2\frac{1}{4}$ Lbs. **\$12.25**

PARTS FOR LITTLE GIANT SCREW PLATES

COLLETS



Cap.



Guide.

The Cap and Guide Form the Complete Collet

| No. of Collet..... | 1 | 5 | 20 | 25 |
|---------------------------|--------|--------|---------|---------|
| Diam. Collet, Inches..... | 2 | 2½ | 4 | 4½ |
| For Size, Inches..... | ¼ to ½ | ¼ to 1 | ¾ to 1¼ | ¾ to 1½ |
| Collet Comp...Each, | \$0.80 | 1.30 | 2.25 | 3.00 |
| Cap .....Each, | .50 | .80 | 1.50 | 2.00 |
| Guide .....Each, | .30 | .50 | .75 | 1.00 |

DIES ONLY



The die is beveled on both sides to permit reversing the die so that work may be threaded either through the guide or from the face, determined by the character of the work.

| Size, Inches..... | ¼ | ½ | ¾ | 1 | 1½ |
|------------------------------|--------|------|------|------|-------|
| U.S.S. Thds. Per Inch..... | 20 | 18 | 16 | 14 | 12-13 |
| S.A.E. Thds. Per Inch..... | 28 | 24 | 24 | 20 | 20 |
| Per Pair..... | \$1.00 | 1.00 | 1.25 | 1.25 | 1.50 |
| Size, Inches..... | ¾ | 1 | 1¼ | 1½ | 2 |
| U.S.S. Thds. Per Inch..... | 12 | 11 | 10 | 9 | 8 |
| S.A.E. Thds. Per Inch..... | 18 | 18 | 16 | 14 | 14 |
| Per Pair..... | \$1.50 | 1.75 | 2.00 | 2.75 | 2.75 |
| Size, Inches..... | 1½ | 2 | 2½ | 3 | 4 |
| U.S.S. Threads Per Inch..... | 7 | 7 | 6 | 6 | 6 |
| Per Pair..... | \$4.00 | 4.00 | 5.00 | 5.00 | 5.00 |

PARTS FOR A1 AND AA4 SCREW PLATES

| No. of Collet..... | A-1 |
|--------------------------------------|---------|
| Diameter of Collet, Inches..... | 1¼ |
| For Fractional Sizes, Inches..... | ¼ to ¾ |
| For Machine Screw Sizes, Inches..... | 4 to 14 |
| Collet Complete.....Each, | \$0.55 |
| Cap .....Each, | .35 |
| Guide .....Each, | .20 |

DIES ONLY

| | | | | | | |
|------------------------------|---------------|---------------|---------------|---------------|---------------|-----|
| Fractional Size, Inches..... | $\frac{1}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{4}$ | |
| Threads Per Inch..... | 40 | 36 | 24 | 24 | 20 | |
| Per Pair..... | \$0.75 | .75 | .75 | .75 | .75 | |
| Mach. Screw Size, Nos. | 4 | 6 | 8 | 10 | 12 | 14 |
| Threads Per Inch..... | 36 | 32 | 32 | 24 | 32 | 24 |
| Per Pair..... | \$0.75 | .75 | .75 | .75 | .75 | .75 |

DIE STOCKS

LITTLE GIANT



Knurled Steel Tube Handles

| Stock Accurately Machined and Highly Finished. | | | | | |
|--|--------|------|------|------|--|
| Nos. | A-1 | 1 | 5 | 7 | |
| Length, Inches..... | 7½ | 14½ | 23 | 26 | |
| Each..... | \$0.75 | 2.50 | 3.50 | 3.50 | |
| Nos. | 9 | 20 | 25 | | |
| Length, Inches..... | 29 | 40 | 52 | | |
| Each..... | \$3.50 | 6.00 | 8.00 | | |

One in a Box.

PIPE STOCKS AND DIES

"TOLEDO" RATCHET PIPE THREADING DEVICE



For Threading Small Pipe

Per Set

No. 00—Capacity $\frac{1}{8}$ to $\frac{3}{4}$ in. Pipe Inclusive, Complete, Net Weight 9 Lbs., Shipping Weight 10 Lbs. \$19.00

This tool is very desirable for threading small sizes of pipe. It is the smallest and most compact pipe threader in existence today.

As the illustration indicates, it consists of a ratchet handle for holding a series of die heads, which heads also include a ratchet gear that forms the bushing for the given size of pipe. There is no possibility of going wrong with this tool.

One Set in a Box.

EXTRA DIE HEADS WITH DIES

To Fit No. 00 Threading Device

| | | | | | |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Sizes, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Wt. Per Set, Oz. | 20 | 20 | 20 | 22 | 22 |
| Per Set | \$3.00 | 3.00 | 3.00 | 3.50 | 3.50 |

"TOLEDO" ADJUSTABLE PIPE THREADING DEVICES



With Receding Die Feature

Per Set

No. 0—Capacity $\frac{1}{8}$ to $\frac{3}{4}$ in. Pipe Inclusive, Complete, Net Weight 8 Lbs., Shipping Weight 11 Lbs. \$16.00

Very popular where a ratchet tool is not needed. Light and compact. Bushings are part of the regular equipment and simplify the centering of the tool on the pipe.

One Set of Dies is used for threading $\frac{1}{8}$ in. pipe, a second Set for $\frac{1}{4}$ and $\frac{3}{8}$ in., and a third Set for $\frac{1}{2}$ and $\frac{3}{4}$ in. pipe.

One Set in a Box.

EXTRA DIES FOR No. 0 SET

| | | | |
|-----------------------------|---------------|-------------------------------|-------------------------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ x $\frac{3}{8}$ | $\frac{1}{2}$ x $\frac{3}{4}$ |
| Weight Per Set, Oz. | 5 | 4 | 4 |
| Per Set | \$2.50 | 2.50 | 2.50 |

"TOLEDO" ADJUSTABLE PIPE THREADING DEVICE



The Standardized Set

Per Set

No. 1—Capacity 1 to 2 in. Pipe Inclusive, Complete, Net Weight 19 Lbs., Shipping Weight 25 Lbs. \$24.00

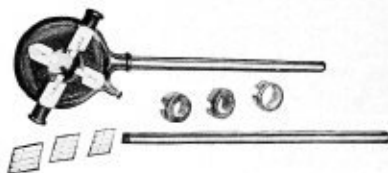
This model is looked upon by thousands of users as the peak of perfection in pipe threading tools. For years it has been the standard by which all other pipe threading devices have been compared, and nothing conceived later has taken its place.

One Set in a Box.

EXTRA DIES FOR No. 1 SET

| | | | | |
|-----------------------------|--------|-----------------|-----------------|------|
| Size, Inches | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 |
| Weight Per Set, Oz. | 7 | 6 | 6 | 5 |
| Per Set | \$2.50 | 2.50 | 2.50 | 2.50 |

"TOLEDO" ADJUSTABLE RATCHET PIPE THREADING DEVICE



Used with One or Two Handles

Per Set

No. 1A—Capacity 1 to 2 in. Pipe Inclusive, Complete, Net Weight 22 Lbs., Shipping Weight 30 Lbs. \$30.00

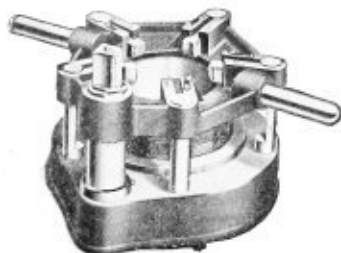
The ratchet makes this tool ideal for threading pipe in the trench, between rafters, against walls or any place where the space is restricted. This feature coupled with the "Toledo's" rugged durability, makes it the most popular threader in the oil fields, and plumbers and steamfitters prefer this model because of this ratchet feature.

One Set in a Box.

EXTRA DIES FOR No. 1A SET

| | | | | |
|-----------------------------|--------|-----------------|-----------------|------|
| Size, Inches | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 |
| Weight Per Set, Oz. | 7 | 6 | 6 | 5 |
| Per Set | \$2.50 | 2.50 | 2.50 | 2.50 |

"TOLEDO" GEARED ADJUSTABLE PIPE THREADING DEVICE



The most practical, most durable, most easily operated and the most general all around satisfactory of all pipe threading devices in use today.

Will Thread a 4 inch Pipe in Less Than Ten Minutes

Per Set

No. 2—Capacity 2 $\frac{1}{2}$ to 4 in. Pipe Inclusive, Complete, Net Weight 97 Lbs., Shipping Weight 110 Lbs. \$100.00

One Set in a Box.

EXTRA DIES FOR No. 2 SET

| | | | | |
|-----------------------------|-----------------|------|-----------------|------|
| Sizes, Inches | 2 $\frac{1}{2}$ | 3 | 3 $\frac{1}{2}$ | 4 |
| Weight Per Set, Oz. | 34 | 32 | 28 | 26 |
| Per Set | \$8.00 | 8.00 | 8.00 | 8.00 |

PIPE STOCK AND DIES

BEAVERETTE

Plain, $\frac{1}{4}$ to $\frac{3}{4}$ Inch

Threads all sizes within its capacity without changing Dies or Bushings.

No. 6—Capacity $\frac{1}{4}$ to $\frac{3}{4}$ in. Pipe Inclusive, Net Weight 8 $\frac{1}{2}$ Lbs., Shipping Weight 12 Lbs. \$15.00

EXTRA DIES FOR No. 6 Set

| | | |
|---------------------|-------------------------------|-------------------------------|
| Size, Inches | $\frac{1}{4}$ — $\frac{3}{4}$ | $\frac{1}{2}$ — $\frac{3}{4}$ |
| Weight Per Set, Oz. | 9 | 9 |
| Per Set | \$3.00 | 3.00 |

One Set in a Box.

BEAVER



Plain, 1 to 2 Inch

Threads all sizes within their capacity without changing dies. They are adjustable and are built on the receding die principle which enables one man to thread any size of pipe and produce absolutely tight joints for all work.

Per Set

No. 25—Capacity 1 to 2 in. Pipe Inclusive, Net Weight 22 Lbs., Shipping Weight 30 Lbs. \$30.00
One Set in a Box.



Ratchet, 1 to 2 Inch

This set is of the same construction and design as the No. 25 outfit described above with the added advantage of a ratchet. With ratchet tools the operator can choose his position and utilize his weight to best advantage in threading pipe in ditches, against ceilings, in corners, etc.

Per Set

No. 26—Capacity 1 to 2 in. Pipe Inclusive, Net Wt. 27 Lbs., Shipping Weight 35 Lbs. \$35.00

EXTRA DIES FOR Nos. 25 AND 26 SETS

| | | | | |
|---------------------|--------|-----------------|-----------------|------|
| Size, Inches | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 |
| Weight Per Set, Oz. | 10 | 10 | 10 | 10 |
| Per Set | \$3.50 | 3.50 | 3.50 | 3.50 |

One Set in a Box.

BEAVER GEARED

Capacity 2 $\frac{1}{4}$ to 4 Inches

The Beaver receding die principle is used in connection with a gear. A steel driving pinion turns the tool through the intermediary of a larger gear, the ratio of which is about 6 to 1. It is the combination of these two features that make it possible for one man alone to thread large pipe.



Per Set

No. 41—Capacity 2 $\frac{1}{2}$ to 4 in. Pipe Inclusive, Net Weight 99 Lbs., Shipping Weight 115 Lbs. \$110.00
Extra Dies—2 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$ and 4 in. 9.00

One set of dies threads all sizes, and is adjustable to cut standard, oversize or undersize, insuring tight-fitting joints regardless of any variation in fittings.

One Set in a Box.

BEAVER JUNIOR



With Ratchet Handle and Individual Die Heads Can be operated close to ceilings, corners, etc.

No. 3A—Capacity $\frac{1}{4}$ to 1 in., Net Weight 11 Lbs., Shipping Weight 13 $\frac{1}{2}$ Lbs. \$24.00
No. 3B—Capacity $\frac{1}{4}$ to 1 in., Net Weight 10 Lbs., Shipping Weight 13 Lbs. 21.00

EXTRA DIES FOR Nos. 3A AND 3B SETS

| | | | | | | |
|------------------|---------------|---------------|---------------|---------------|-----------------|-----------------|
| Size, Inches | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 |
| Weight Set, Lbs. | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |
| Per Set | \$3.00 | 3.00 | 3.00 | 3.50 | 3.50 | 4.00 |

One Set in a Box.

REED SOLID



Nos. OSP1 and 1SP1. No. 2SP2—With Head Screw.

Complete with Q and E Dies and Guides Japanned, Malleable Iron Stock with Steel Top.

| Nos. | OSP1 | 1SP1 | 2SP2 |
|---------------------|---|---|---------------------------------------|
| Threads Pipe, In. | $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 | 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 2 |
| Dies with Ea. Stock | 4 | 5 | 3 |
| Diam. of Dies, In. | 2 x $\frac{1}{2}$ | 2 $\frac{1}{2}$ x $\frac{3}{4}$ | 4 x $\frac{7}{8}$ |
| Wt. Per Set, Lbs. | 6 | 12 $\frac{1}{2}$ | 24 |
| Per Set | \$8.00 | \$10.50 | \$14.50 |
| Stock Only, Each | 3.00 | 3.50 | 8.50 |
| Extra Guides, Each | .30 | .40 | .75 |

For Extra Dies See Page 40.

ARMSTRONG ADJUSTABLE



Briggs American Standard

Complete Set includes Stock, Handles, Dies, Guides and Wrench.

The dies are standard, right hand thread, and will fit any adjustable stock of the same type.

| Nos. | 1A | 2A | 2B | 2 $\frac{1}{2}$ A | 3A |
|-----------------|--------------------------------|--------------------|---------------------|----------------------------------|----------------------|
| Th'ds Pipe, In. | $\frac{1}{8}$ to $\frac{1}{2}$ | $\frac{1}{4}$ to 1 | $\frac{1}{2}$ to 1 | $\frac{1}{2}$ to 1 $\frac{1}{4}$ | 1 $\frac{1}{4}$ to 2 |
| Size Dies Made | $\frac{1}{8}$ to $\frac{1}{2}$ | $\frac{1}{4}$ to 1 | $\frac{1}{2}$ to 1 | $\frac{1}{2}$ to 1 $\frac{1}{4}$ | $\frac{1}{2}$ to 2 |
| Wt. Set, Lbs. | 4 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 13 $\frac{3}{4}$ | 14 $\frac{1}{2}$ | 35 |
| Per Sets | \$9.00 | 12.00 | 14.00 | 14.00 | 18.00 |
| Extra Dies | 1.60 | 2.00 | 2.00 | 3.50 | 4.50 |
| Extra Guides | .30 | .40 | .40 | .60 | .75 |
| Nos. | 3B | 3C | 6A | 7A | 7B |
| Th'ds Pipe, In. | 1 to 2 | $\frac{3}{4}$ to 2 | 2 $\frac{1}{2}$ & 3 | 3 $\frac{1}{2}$ & 4 | 2 $\frac{1}{2}$ to 4 |
| Size Dies Made | $\frac{1}{2}$ to 2 | $\frac{1}{2}$ to 2 | 2 $\frac{1}{2}$ & 3 | 2 $\frac{1}{2}$ to 4 | 2 $\frac{1}{2}$ to 4 |
| Wt. Set, Lbs. | 40 | 44 | 43 | 58 | 78 |
| Per Set | \$21.00 | 24.00 | 45.00 | 55.00 | 75.00 |
| Extra Dies | 4.50 | 4.50 | 17.00 | 20.00 | 20.00 |
| Extra Guides | .75 | .75 | 2.00 | 3.00 | 3.00 |

ARMSTRONG ADJUSTABLE BOLT DIES
To Fit Standard Pipe Stocks

Furnished in U. S. or S. A. E. Standard Threads.

| Nos. | B1A | B1B | B2A |
|-----------------|---|---|---|
| Fits Stock Nos. | 1 | 1 | 2 |
| Threads Bolts | $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ | $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ | $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ |
| Per Set | \$1.50 | 1.75 | 2.00 |
| Nos. | B2B | B2C | B2D |
| Fits Stock Nos. | 2 | 2 | 2 |
| Threads Bolts | $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$ | $\frac{3}{4}$, $\frac{1}{2}$, 1 | 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ |
| Per Set | \$2.00 | 2.00 | 2.25 |

TOOL HOLDERS

ARMSTRONG STRAIGHT SHANK



With High Speed Steel Cutters

Complete with Drop Forged Wrench and One High Speed Steel Cutter, Ground to Shape.

| Nos. | Size of Holder, Inches | Size Cutter, Sq. In. | Weight Each, Lbs. | Complete, Each | Extra Cutters, Each |
|-------|--|----------------------|-------------------|----------------|---------------------|
| 00-S | $\frac{1}{8}$ x $\frac{3}{8}$ x $4\frac{1}{2}$ | $\frac{1}{16}$ | $\frac{1}{2}$ | \$2.70 | \$0.15 |
| 0-S | $\frac{3}{8}$ x $\frac{7}{8}$ x 5 | $\frac{1}{4}$ | $\frac{3}{4}$ | 2.85 | .20 |
| 1-S | $\frac{1}{2}$ x $1\frac{1}{8}$ x 6 | $\frac{9}{16}$ | $1\frac{1}{2}$ | 3.25 | .35 |
| 2-S | $\frac{5}{8}$ x $1\frac{3}{8}$ x 7 | $\frac{1}{4}$ | $2\frac{1}{4}$ | 4.00 | .55 |
| 3-S | $\frac{3}{4}$ x $1\frac{5}{8}$ x 8 | $\frac{1}{2}$ | $3\frac{1}{2}$ | 5.40 | .90 |
| 4-S | $\frac{7}{8}$ x $1\frac{3}{4}$ x 9 | $\frac{1}{2}$ | $4\frac{3}{4}$ | 6.90 | 1.30 |
| 5-S | 1 x 2 x 11 | $\frac{5}{8}$ | $7\frac{1}{2}$ | 9.75 | 2.35 |
| 6-S | $1\frac{1}{4}$ x $2\frac{1}{4}$ x 13 | $\frac{3}{4}$ | 12 | 13.50 | 3.85 |
| 7-S | $1\frac{1}{2}$ x $2\frac{1}{2}$ x 16 | $\frac{7}{8}$ | 19 | 22.50 | 5.85 |
| 750-S | $1\frac{5}{8}$ x $2\frac{3}{4}$ x 18 | 1 | 26 | 33.00 | 8.35 |
| 800-S | $1\frac{3}{4}$ x 3 x 20 | $1\frac{1}{8}$ | 32 | 42.75 | 11.35 |

ARMSTRONG RIGHT HAND OFFSET



With High Speed Steel Cutters

Complete with Drop Forged Wrench and One High Speed Steel Cutter, Ground to Shape.

| Nos. | Size of Holder, Inches | Size Cutter, Sq. In. | Weight Each, Lbs. | Complete, Each | Extra Cutters, Each |
|-------|--|----------------------|-------------------|----------------|---------------------|
| 00-R | $\frac{1}{8}$ x $\frac{3}{8}$ x $4\frac{1}{2}$ | $\frac{1}{16}$ | $\frac{1}{2}$ | \$2.70 | \$0.15 |
| 0-R | $\frac{3}{8}$ x $\frac{7}{8}$ x 5 | $\frac{1}{4}$ | $\frac{3}{4}$ | 2.85 | .20 |
| 1-R | $\frac{1}{2}$ x $1\frac{1}{8}$ x 6 | $\frac{9}{16}$ | $1\frac{1}{2}$ | 3.25 | .35 |
| 2-R | $\frac{5}{8}$ x $1\frac{3}{8}$ x 7 | $\frac{1}{4}$ | $2\frac{1}{4}$ | 4.00 | .55 |
| 3-R | $\frac{3}{4}$ x $1\frac{5}{8}$ x 8 | $\frac{1}{2}$ | $3\frac{1}{2}$ | 5.40 | .90 |
| 4-R | $\frac{7}{8}$ x $1\frac{3}{4}$ x 9 | $\frac{1}{2}$ | 5 | 6.90 | 1.30 |
| 5-R | 1 x 2 x 11 | $\frac{5}{8}$ | 8 | 9.75 | 2.35 |
| 6-R | $1\frac{1}{4}$ x $2\frac{1}{4}$ x 13 | $\frac{3}{4}$ | 13 | 13.50 | 3.85 |
| 7-R | $1\frac{1}{2}$ x $2\frac{1}{2}$ x 16 | $\frac{7}{8}$ | 21 | 22.50 | 5.85 |
| 750-R | $1\frac{5}{8}$ x $2\frac{3}{4}$ x 18 | 1 | 30 | 33.00 | 8.35 |
| 800-R | $1\frac{3}{4}$ x 3 x 20 | $1\frac{1}{8}$ | 35 | 42.75 | 11.35 |

ARMSTRONG LEFT HAND OFF-SET



With High Speed Steel Cutters, Left Hand Off-Set Shank

Complete with Drop Forged Wrench and One High Speed Steel Cutter, Ground to Shape.

| Nos. | Size of Holder, Inches | Size Cutter, Sq. In. | Weight Each, Lbs. | Complete, Each | Extra Cutters, Each |
|-------|--|----------------------|-------------------|----------------|---------------------|
| 00-L | $\frac{1}{8}$ x $\frac{3}{8}$ x $4\frac{1}{2}$ | $\frac{1}{16}$ | $\frac{1}{2}$ | \$2.70 | \$0.15 |
| 0-L | $\frac{3}{8}$ x $\frac{7}{8}$ x 5 | $\frac{1}{4}$ | $\frac{3}{4}$ | 2.85 | .20 |
| 1-L | $\frac{1}{2}$ x $1\frac{1}{8}$ x 6 | $\frac{9}{16}$ | $1\frac{1}{2}$ | 3.25 | .35 |
| 2-L | $\frac{5}{8}$ x $1\frac{3}{8}$ x 7 | $\frac{1}{4}$ | $2\frac{1}{4}$ | 4.00 | .55 |
| 3-L | $\frac{3}{4}$ x $1\frac{5}{8}$ x 8 | $\frac{1}{2}$ | $3\frac{1}{2}$ | 5.40 | .90 |
| 4-L | $\frac{7}{8}$ x $1\frac{3}{4}$ x 9 | $\frac{1}{2}$ | 5 | 6.90 | 1.30 |
| 5-L | 1 x 2 x 11 | $\frac{5}{8}$ | 8 | 9.75 | 2.35 |
| 6-L | $1\frac{1}{4}$ x $2\frac{1}{4}$ x 13 | $\frac{3}{4}$ | 13 | 13.50 | 3.85 |
| 7-L | $1\frac{1}{2}$ x $2\frac{1}{2}$ x 16 | $\frac{7}{8}$ | 21 | 22.50 | 5.85 |
| 750-L | $1\frac{5}{8}$ x $2\frac{3}{4}$ x 18 | 1 | 30 | 33.00 | 8.35 |
| 800-L | $1\frac{3}{4}$ x 3 x 20 | $1\frac{1}{8}$ | 35 | 42.75 | 11.35 |

All Above, One in a Box.

CUTTING-OFF TOOLS

ARMSTRONG



Straight Shank

Complete with Drop Forged Wrench and High Speed Steel Cutter, Ground to Shape.

| Nos. | Size of Holder, Inches | Size of Blades, Inches | Weight Each, Lbs. | Complete, Each | Extra Blades, Each |
|------|--|--------------------------------|-------------------|----------------|--------------------|
| 19 | $\frac{1}{8}$ x $\frac{3}{8}$ x $4\frac{1}{2}$ | $\frac{1}{8}$ x $\frac{1}{2}$ | $\frac{1}{2}$ | \$2.85 | \$0.60 |
| 20 | $\frac{3}{8}$ x $\frac{7}{8}$ x 5 | $\frac{1}{4}$ x $\frac{3}{4}$ | $\frac{3}{4}$ | 3.00 | .65 |
| 21 | $\frac{1}{2}$ x $1\frac{1}{8}$ x 6 | $\frac{3}{8}$ x $\frac{3}{4}$ | $1\frac{1}{4}$ | 3.60 | .90 |
| 22 | $\frac{5}{8}$ x $1\frac{3}{8}$ x 7 | $\frac{1}{2}$ x $\frac{3}{4}$ | $2\frac{1}{4}$ | 4.50 | 1.30 |
| 23 | $\frac{3}{4}$ x $1\frac{5}{8}$ x 8 | $\frac{3}{4}$ x $\frac{3}{4}$ | $3\frac{1}{4}$ | 6.00 | 2.15 |
| 24 | $\frac{7}{8}$ x $1\frac{3}{4}$ x 9 | $\frac{7}{8}$ x $\frac{1}{2}$ | $4\frac{1}{4}$ | 7.50 | 2.90 |
| 25 | 1 x 2 x 10 | $\frac{1}{2}$ x $1\frac{1}{2}$ | $6\frac{1}{4}$ | 9.75 | 4.00 |
| 26 | $1\frac{1}{4}$ x $2\frac{1}{4}$ x 11 | $\frac{1}{2}$ x $1\frac{3}{4}$ | 9 | 11.65 | 4.65 |



Right Hand Off-Set Shank

Complete with Drop Forged Wrench and High Speed Steel Cutter, Ground to Shape.

| Nos. | Size of Holder, Inches | Size of Blades, Inches | Weight Each, Lbs. | Complete, Each | Extra Blades, Each |
|------|---------------------------------|--------------------------------|-------------------|----------------|--------------------|
| 29-R | $\frac{1}{8}$ x $\frac{3}{8}$ | $\frac{1}{8}$ x $\frac{1}{2}$ | $\frac{5}{8}$ | \$2.85 | \$0.60 |
| 30-R | $\frac{3}{8}$ x $\frac{7}{8}$ | $\frac{1}{4}$ x $\frac{3}{4}$ | $\frac{3}{4}$ | 3.00 | .65 |
| 31-R | $\frac{1}{2}$ x $1\frac{1}{8}$ | $\frac{3}{8}$ x $\frac{3}{4}$ | $1\frac{1}{4}$ | 3.60 | .90 |
| 32-R | $\frac{5}{8}$ x $1\frac{3}{8}$ | $\frac{1}{2}$ x $\frac{3}{4}$ | $2\frac{1}{4}$ | 4.50 | 1.30 |
| 33-R | $\frac{3}{4}$ x $1\frac{5}{8}$ | $\frac{3}{4}$ x $\frac{3}{4}$ | $3\frac{1}{4}$ | 6.00 | 2.15 |
| 34-R | $\frac{7}{8}$ x $1\frac{3}{4}$ | $\frac{7}{8}$ x $\frac{1}{2}$ | $4\frac{1}{4}$ | 7.50 | 2.90 |
| 35-R | 1 x 2 | $\frac{1}{2}$ x $1\frac{1}{2}$ | $6\frac{1}{4}$ | 9.75 | 4.00 |
| 36-R | $1\frac{1}{4}$ x $2\frac{1}{4}$ | $\frac{1}{2}$ x $1\frac{3}{4}$ | 9 | 11.65 | 4.65 |



Left Hand Off-Set Shank

Complete with Drop Forged Wrench and High Speed Steel Cutter, Ground to Shape.

| Nos. | Size of Holder, Inches | Size of Blades, Inches | Weight Each, Lbs. | Complete, Each | Extra Blades, Each |
|------|---------------------------------|--------------------------------|-------------------|----------------|--------------------|
| 29-L | $\frac{1}{8}$ x $\frac{3}{8}$ | $\frac{1}{8}$ x $\frac{1}{2}$ | $\frac{5}{8}$ | \$2.85 | \$0.60 |
| 30-L | $\frac{3}{8}$ x $\frac{7}{8}$ | $\frac{1}{4}$ x $\frac{3}{4}$ | $\frac{3}{4}$ | 3.00 | .65 |
| 31-L | $\frac{1}{2}$ x $1\frac{1}{8}$ | $\frac{3}{8}$ x $\frac{3}{4}$ | $1\frac{1}{4}$ | 3.60 | .90 |
| 32-L | $\frac{5}{8}$ x $1\frac{3}{8}$ | $\frac{1}{2}$ x $\frac{3}{4}$ | $2\frac{1}{4}$ | 4.50 | 1.30 |
| 33-L | $\frac{3}{4}$ x $1\frac{5}{8}$ | $\frac{3}{4}$ x $\frac{3}{4}$ | $3\frac{1}{4}$ | 6.00 | 2.15 |
| 34-L | $\frac{7}{8}$ x $1\frac{3}{4}$ | $\frac{7}{8}$ x $\frac{1}{2}$ | $4\frac{1}{4}$ | 7.50 | 2.90 |
| 35-L | 1 x 2 | $\frac{1}{2}$ x $1\frac{1}{2}$ | $6\frac{1}{4}$ | 9.75 | 4.00 |
| 36-L | $1\frac{1}{4}$ x $2\frac{1}{4}$ | $\frac{1}{2}$ x $1\frac{3}{4}$ | 9 | 11.65 | 4.65 |

BORING TOOLS

ARMSTRONG

Reversible

Complete with Holder and Bar with Straight and 45° End Caps. Two High Speed Cutters, Ground for Boring and Double Head Wrench.

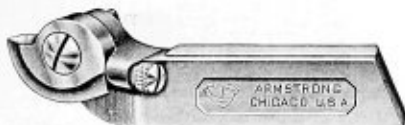


| Nos. | Size Shank, Inches | Diam. Bar, Inches | Size Cutter, Sq. In. | Weight Each, Lbs. | Complete, Each | Extra Cutters, Each |
|------|--------------------------------|-------------------|----------------------|-------------------|----------------|---------------------|
| 00B | $\frac{1}{8}$ x $\frac{3}{8}$ | $\frac{1}{8}$ | $\frac{1}{16}$ | $\frac{1}{2}$ | \$4.90 | \$0.10 |
| 8 | $\frac{3}{8}$ x $\frac{7}{8}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{3}{4}$ | 4.00 | .10 |
| 9 | $\frac{1}{2}$ x $1\frac{1}{8}$ | $\frac{3}{8}$ | $\frac{9}{16}$ | $1\frac{1}{4}$ | 5.80 | .18 |
| 10 | $\frac{5}{8}$ x $1\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{1}{4}$ | $2\frac{1}{4}$ | 7.65 | .30 |
| 11 | $\frac{3}{4}$ x $1\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $3\frac{1}{4}$ | 10.85 | .50 |
| 12 | $\frac{7}{8}$ x $1\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{1}{2}$ | $4\frac{1}{4}$ | 14.00 | .75 |
| 13 | 1 x 2 | $1\frac{1}{2}$ | $\frac{1}{2}$ | 25 | 22.50 | 1.00 |

All Above, One in a Box.

THREADING TOOLS

ARMSTRONG



With Positive and Accurate Adjustment

Complete with Drop Forged Steel Wrench and High Speed Steel Cutter.

| Nos. | Size Holder, Inches | Weight Each, Lbs. | Complete with High Speed Cutter, Each | Ext. Cutters, High Speed Steel, Each |
|------|------------------------------------|-------------------|---------------------------------------|--------------------------------------|
| 00T | $\frac{1}{16}$ x $\frac{3}{8}$ x 5 | $\frac{3}{4}$ | \$ 4.15 | \$2.65 |
| 50 | $\frac{3}{16}$ x $\frac{7}{8}$ x 5 | $\frac{7}{8}$ | 4.15 | 2.65 |
| 51 | $\frac{1}{2}$ x $1\frac{1}{4}$ x 6 | $1\frac{1}{2}$ | 5.00 | 3.15 |
| 52 | $\frac{5}{8}$ x $1\frac{3}{4}$ x 7 | $2\frac{1}{4}$ | 6.40 | 4.15 |
| 53 | $\frac{3}{4}$ x $1\frac{1}{2}$ x 8 | $3\frac{1}{2}$ | 8.25 | 5.25 |
| 54 | $\frac{7}{8}$ x $1\frac{3}{4}$ x 9 | $4\frac{1}{4}$ | 9.75 | 5.25 |
| 55 | 1 x 2 x 10 | $6\frac{1}{4}$ | 12.40 | 6.40 |

Note—When ordering, state if V, U, S. or Whitworth Standard is wanted. Single Point Sharp V Cutter will always be shipped unless otherwise ordered.

One in a Box.

HAND THREAD CHASERS



No. 904—Inside



No. 904A—Outside

U. S. Standard Threads

| Thds. Per Inch. | 4 $\frac{1}{2}$ | 5 | 5 $\frac{1}{2}$ | 6 | 7 | 8 | 9 |
|-------------------|-----------------|-----|------------------|-----|-----|-----|-----|
| Each | \$0.50 | .50 | .50 | .50 | .50 | .50 | .40 |
| Thds. Per Inch. | 10 | 11 | 11 $\frac{1}{2}$ | 12 | 13 | 14 | 16 |
| Each | \$0.40 | .40 | .40 | .40 | .40 | .40 | .40 |
| Threads Per Inch. | 18 | 19 | 20 | 22 | 24 | 26 | |
| Each | \$0.35 | .35 | .35 | .35 | .35 | .35 | |
| Threads Per Inch. | 27 | 28 | 30 | 32 | 36 | 40 | |
| Each | \$0.35 | .35 | .35 | .35 | .35 | .35 | |

Specify Number and Threads when ordering.

LATHE CENTERS

MORSE



No. 295—Hardened Ends

| | | | |
|-------------------------|-----------------|-----------------|-----------------|
| Morse Taper Shank, Nos. | 0 | 1 | 2 |
| Length, Inches | 2 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | 4 $\frac{1}{2}$ |
| Each | \$0.50 | .60 | .75 |
| Morse Taper Shank, Nos. | 3 | 4 | 5 |
| Length, Inches | 5 $\frac{1}{4}$ | 6 $\frac{3}{4}$ | 8 $\frac{1}{2}$ |
| Each | \$1.25 | 1.75 | 3.50 |

These Lathe Centers are made from Tool Steel, both ends being hardened. The shanks are ground to our standard tapers. Included angle of point is 60° and ground true. Other tapers made to order.

LATHE MANDRELS

MORSE



No. 570—Hardened and Ground

Tool steel, hardened and accurately ground. Tapered .0005 to 1 in., slightly under size on the entering end. They correspond in size to reamers and will fit holes reamed by them.

Other tapers per foot can be furnished at special prices. Size stamped on large end.

| Diam., Inch. | Length, Inch. | Each | Diam., Inch. | Length, Inch. | Each | Diam., Inch. | Length, Inch. | Each |
|-----------------|-----------------|--------|----------------|------------------|--------|----------------|------------------|---------|
| $\frac{1}{4}$ | 3 $\frac{3}{4}$ | \$0.80 | $1\frac{1}{2}$ | 8 $\frac{1}{2}$ | \$3.25 | $2\frac{1}{2}$ | 12 $\frac{1}{2}$ | \$10.50 |
| $\frac{5}{16}$ | 4 | .90 | $1\frac{7}{8}$ | 8 $\frac{3}{4}$ | 3.50 | $2\frac{3}{8}$ | 12 $\frac{1}{4}$ | 11.25 |
| $\frac{3}{8}$ | 4 $\frac{1}{4}$ | 1.00 | $1\frac{1}{2}$ | 9 | 3.75 | $2\frac{1}{2}$ | 12 $\frac{1}{2}$ | 12.00 |
| $\frac{7}{16}$ | 4 $\frac{1}{2}$ | 1.10 | $1\frac{3}{4}$ | 9 $\frac{1}{4}$ | 4.00 | $2\frac{1}{2}$ | 13 | 12.75 |
| $\frac{1}{2}$ | 5 | 1.20 | $1\frac{1}{2}$ | 9 $\frac{1}{2}$ | 4.25 | $2\frac{3}{4}$ | 13 | 13.50 |
| $\frac{9}{16}$ | 5 $\frac{1}{4}$ | 1.30 | $1\frac{1}{2}$ | 9 $\frac{3}{4}$ | 4.50 | $2\frac{1}{2}$ | 13 | 14.25 |
| $\frac{5}{8}$ | 5 $\frac{1}{2}$ | 1.40 | $1\frac{3}{4}$ | 10 | 4.75 | $2\frac{3}{4}$ | 13 | 15.00 |
| $\frac{11}{16}$ | 5 $\frac{3}{4}$ | 1.50 | $1\frac{1}{2}$ | 10 $\frac{1}{4}$ | 5.00 | $2\frac{1}{2}$ | 13 | 15.75 |
| $\frac{3}{4}$ | 6 | 1.60 | $1\frac{3}{4}$ | 10 $\frac{1}{2}$ | 5.50 | 3 | 13 | 16.50 |
| $\frac{13}{16}$ | 6 $\frac{1}{4}$ | 1.70 | $1\frac{1}{2}$ | 10 $\frac{3}{4}$ | 6.00 | $3\frac{1}{8}$ | 14 | 18.00 |
| $\frac{7}{8}$ | 6 $\frac{1}{2}$ | 1.85 | 2 | 11 | 6.50 | $3\frac{1}{4}$ | 14 | 19.50 |
| $\frac{15}{16}$ | 6 $\frac{3}{4}$ | 2.00 | $2\frac{1}{8}$ | 11 $\frac{1}{2}$ | 7.00 | $3\frac{1}{2}$ | 15 | 21.00 |
| 1 | 7 | 2.15 | $2\frac{1}{4}$ | 11 $\frac{1}{2}$ | 7.50 | $3\frac{1}{2}$ | 15 | 23.00 |
| $1\frac{1}{16}$ | 7 $\frac{1}{4}$ | 2.30 | $2\frac{1}{8}$ | 12 | 8.00 | $3\frac{5}{8}$ | 16 | 25.00 |
| $1\frac{1}{8}$ | 7 $\frac{1}{2}$ | 2.45 | $2\frac{1}{4}$ | 12 | 8.50 | $3\frac{3}{4}$ | 16 | 27.00 |
| $1\frac{1}{4}$ | 7 $\frac{3}{4}$ | 2.60 | $2\frac{1}{4}$ | 12 | 9.00 | $3\frac{7}{8}$ | 17 | 29.00 |
| $1\frac{1}{2}$ | 8 | 2.80 | $2\frac{3}{8}$ | 12 | 9.50 | 4 | 17 | 31.00 |
| $1\frac{3}{8}$ | 8 $\frac{1}{4}$ | 3.00 | $2\frac{1}{2}$ | 12 $\frac{1}{2}$ | 10.00 | | | |

KNURLING TOOLS

BILLINGS & SPENCER

For Lathe Use
Forged Steel, with
Movable Arms.



Each
No. BJ—6x1 $\frac{1}{2}$ in.
Holder, Maximum
Opening 1 $\frac{1}{2}$ in.,
Minimum Opening
 $\frac{3}{8}$ in. Between
Knurl, with 3 Pair
Knurls, Wt. Each
1 Lb. \$7.00
Per Pair

Extra Knurls— $\frac{3}{4}$ x $\frac{1}{2}$ in., Coarse, Fine or Medium... \$1.10
One in a Box.

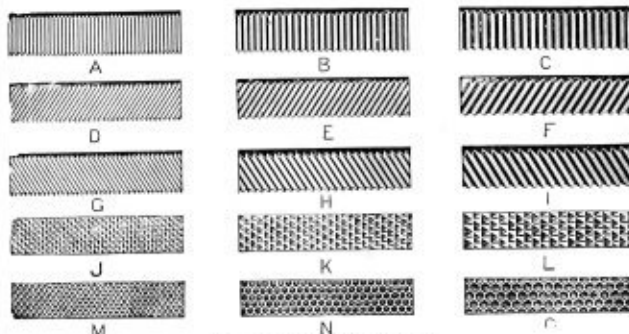
ADJUSTABLE KNURL HOLDERS



Polished Steel, Hardwood Handle

Per Dozen
No. 20—Holds Knurls Up to $\frac{1}{2}$ in. Thick. \$12.00
One-half Dozen in a Box.

KNURLS



Tool Steel, Hardened

Letters Designate Style of Knurls.

Per Dozen
No. 8— $\frac{3}{4}$ in. Diameter, $\frac{1}{8}$ in. Thick, .173 in. Hole... \$9.50

OUTSIDE MICROMETER CALIPERS

LUFKIN HALF-INCH



With Ratchet Stop and Lock Nut

Frame is Cut Away to give Clearance. Each

No. 6040—Measures 0 to $\frac{1}{2}$ in. by Thousandths of an Inch, Weight Each 3 Oz. \$8.50No. 6010—Without Ratchet Stop or Lock Nut. 7.00
In Hinged Wooden Box, with Clasp.

STARRETT HALF-INCH



With Lock Nut and Ratchet Stop

Frame is cut out for use in places where the ordinary frame cannot be inserted. The width of the anvil end of the frame is approximately $\frac{3}{8}$ in. EachNo. 232—Measures 0 to $\frac{1}{2}$ in. by Thousandths of an Inch, Weight Each 3 Oz. \$8.50Leather Case—Extra 1.20
One in a Box.

BROWN & SHARPE HALF-INCH



With Ratchet Stop

Decimal Equivalents Stamped on Frame. Each

No. 4RS—Measures 0 to $\frac{1}{2}$ in. by Thousandths of an Inch, Weight Each 3 Oz. \$7.50

Leather Case—Extra 1.20



With Ratchet Stop and Clamp Ring

Decimal Equivalents Stamped on Frame. Each

No. 5RS—Measures 0 to $\frac{1}{2}$ in. by Thousandths of an Inch, Weight Each 3 Oz. \$8.50Leather Case—Extra 1.20
One in a Box.

LUFKIN ONE-INCH



Plain, without Lock Nut or Ratchet Stop.

Decimal Equivalents Stamped on Frame. The frame is cut away to give clearance. Each

No. 1611—Measures 0 to 1 in. by Thousandths of an Inch, Weight Each 8 Oz. \$8.50

No. 1621—With Lock Nut, Otherwise Same as No. 1611 9.50



With Lock Nut and Ratchet Stop.

With Decimal Equivalents Stamped on Frame. The frame is cut away to give clearance. Each

No. 1641—Measures 0 to 1 in. by Thousandths of an Inch, Weight Each 8 Oz. \$10.00

No. 1641V—Measures 0 to 1 in. by Ten Thousandths of an Inch, Otherwise Same as No. 1641. 11.75
In Hinged Wooden Box, with Clasp.

LUFKIN ONE-INCH



With Lock Nut, and Ratchet Stop

Decimal Equivalents Stamped on Frame. Each

No. 641—Measures 0 to 1 in. by Thousandths of an Inch, Weight Each 8 Oz. \$10.00

No. 641V—Measures 0 to 1 in. by Ten Thousandths of an Inch, Otherwise Same as No. 641. 11.75



With Lock Nut, without Ratchet Stop

Beveled Anvil and Spindle Face which makes it convenient in applying or sliding off the work. Decimal Equivalents Stamped on Frame. Each

No. 621B—Measures 0 to 1 in. by Thousandths of an Inch, Weight Each 8 Oz. \$9.50



Enameled Green Frames, Plain, without Lock Nut or Ratchet Stop

Frame is cut away to give clearance. Each

No. 1811—Measures 0 to 1 in. by Thousandths of an Inch, Weight Each 8 Oz. \$6.25



Enameled Green Frame, with Lock Nut, without Ratchet Stop

Frame is cut away to give clearance. Each

No. 1821—Measures 0 to 1 in. by Thousandths of an Inch, Weight Each 8 Oz. \$6.75



Enameled Green Frame, with Lock Nut and Ratchet Stop

Frame is cut away to give clearance. Each

No. 1841—Measures 0 to 1 in. by Thousandths of an Inch, Weight Each 8 Oz. \$7.25

No. 1841V—Measures 0 to 1 in. by Ten Thousandths of an Inch, Otherwise Same as No. 1841. 8.75
All Above in Hinged Wooden Box, with Clasp.

WOOD HANDLES FOR MICROMETERS

Any standard Lufkin Micrometer can be furnished with Wooden Handle attached to Frame at \$1.50 each additional. They are especially convenient thus equipped for use in Rolling Mills in gauging hot work.

OUTSIDE MICROMETER CALIPERS

STARRETT ONE-INCH



With Lock Nut and Ratchet Stop

Decimal Equivalents Stamped on Frame. Each

- No. 3—Measures 0 to 1 in. by Thousandths of an inch, Weight Each 8 Oz. \$10.00
 No. 113—Measures by Ten Thousandths as Well as Thousandths of an inch. 11.75
 Leather Case—Extra 1.25
 One in a Box.



With Lock Nut and Ratchet Stop

Frame is cut out for use in places where the ordinary frame cannot be inserted. The width of the anvil end of the frame is approximately $\frac{1}{4}$ in. Decimal Equivalents stamped on frame. Each

- No. 230—Measures 0 to 1 in. by Thousandths of an inch, Weight Each 8 Oz. \$10.00
 No. 231—Measures by Ten Thousandths as Well as Thousandths of an inch. 11.75
 Leather Case—Extra 1.25
 One in a Box.



With Finger Ring, Lock Nut and Ratchet Stop

With Decimal Equivalents Stamped on Frame. Each

- No. 220—Measures 0 to 1 in. by Thousandths of an inch, Weight Each 8 Oz. \$11.25
 No. 221—Measures 0 to $\frac{1}{2}$ in. by Thousandths of an inch, Weight Each 4 Oz. 9.75
 Leather Case—Extra 1.25
 One in a Box.

STARRETT QUICK ADJUSTING



With Lock Nut and Ratchet Stop

This Micrometer can be instantly opened or closed to any point within its capacity by pressing the finger against the end of the plunger. Fine adjustments are made in the usual way. Decimal equivalents stamped on frame. Each

- No. 204—Measures 0 to 1 in. by Thousandths of an inch, Weight Each 9 Oz. \$15.00
 Leather Case—Extra 1.25
 One in a Box.

BROWN & SHARPE REX ONE-INCH



With Ratchet Stop

An Inexpensive Yet Accurate Tool, Decimal Equivalents Stamped on Thimble. Each

- No. 11RS—Measures 0 to 1 in. by Thousandths of an inch, Weight Each 9 Oz. \$6.75
 No. 11—Without Ratchet Stop. 6.25
 Leather Case—Extra 1.25
 One in a Box.

BROWN & SHARPE ONE-INCH

With Ratchet Stop and Clamp Ring

Decimal Equivalents Stamped on the Frame.



Each

- No. 8RS—Measures 0 to 1 in. by Thousandths of an inch, Weight Each 8 Oz. \$10.00
 No. 8—Without Ratchet Stop. 9.50
 Leather Case—Extra 1.25
 Reads Ten Thousandths, with Ratchet Stop and Clamp Ring



Decimal Equivalents Stamped on the Frame.

Each

- No. 10RS—Measures 0 to 1 in. by Ten Thousandths as Well as Thousandths of an inch, Weight Each 8 Oz. \$11.75
 No. 10—Without Ratchet Stop. 11.25
 Leather Case—Extra 1.25
 One in a Box.

With Clamp Screw and Ratchet Stop

Decimal Equivalents Stamped on the Frame.



Each

- No. 17RS—Measures 0 to 1 in. by Thousandths of an inch, Weight Each 8 Oz. \$10.00
 No. 17—Without Ratchet Stop. 9.50
 Leather Case—Extra 1.25
 One in a Box.

BROWN & SHARPE ROLLING MILL

For Gauging Hot Metals
With Decimal Equivalents
Stamped on Frame.

The wooden handle attached to these micrometers is about $2\frac{3}{4}$ in. long and 1 in. at largest diameter and makes the micrometer convenient to use as it keeps the hand at a distance from the hot metal. The clamp screw is provided with wing nuts. Each

- No. H17—Measures 0 to 1 in. by Thousandths of an inch, Wt. Each 9 Oz. \$11.00
 No. H17RS—With Ratchet Stop, Otherwise Same as No. H17. 11.50
 One in a Box.

BROWN & SHARPE DIRECT READING

Indicator on Frame Gives
Reading in Plain Figures

Is a great time saver and aid to accurate work. Can be easily held in one hand, the exact number of thousandths are read directly from the tool at a glance. Each

- No. 26—Measures 0 to 1 in. by Thousandths of an inch, Weight 9 Oz. \$20.00
 Leather Case—Extra 1.25
 One in a Box.



DAVENPORT-SLOCOMB DIRECT READING

Reads in Plain
Figures

The reading is direct on every thousandth and reads from 0 to 999. For measurements to an accuracy of .0005 inch it is only necessary to see that the right hand figure is about central in its aperture.

Drop Forged Steel Frame, Polished, with Raised Figures of Decimal Equivalents. Each

- No. DS1—Measures 0 to 1 in. by Thousandths of an inch, Complete in Leather Case, Weight Each 10 Oz. \$15.00

OUTSIDE MICROMETER CALIPERS

LUFKIN TWO INCH



For Measuring by Thousandths, 1 to 2 in.
With Decimal Equivalents Stamped on Frame.

- Each
- No. 1612—Plain, without Lock Nut or Ratchet Stop, with 1 in. Test Gauge.....\$ 9.50
- No. 1622—With Lock Nut, without Ratchet Stop, with 1 in. Test Gauge.....10.50
- No. 1642—With Lock Nut and Ratchet Stop, with 1 in. Test Gauge.....11.00
- For Measuring by Ten Thousandths, 1 to 2 in. Each
- No. 1642V—With Lock Nut and Ratchet Stop, with 1 in. Test Gauge.....12.75
- Weight Each 10 Ounces.



Green Enameled Frame

- For Measuring by Thousandths, 1 to 2 in. Each
- No. 1812—Plain, without Lock Nut or Ratchet Stop.....\$7.00
- No. 1822—With Lock Nut, without Ratchet Stop.....7.50
- For Measuring by Ten Thousandths, 1 to 2 in.
- No. 1822V—With Lock Nut, without Ratchet Stop.....9.00
- Weight Each 10 Ounces.



Green Enameled Frame

- For Measuring by Thousandths, 1 to 2 in. Each
- No. 1842—With Lock Nut and Ratchet Stop.....\$8.00
- For Measuring by Ten Thousandths, 1 to 2 in.
- No. 1842V—With Lock Nut and Ratchet Stop.....9.50
- All Above, One in a Hinged Wooden Box, with Clasp.

STARRETT TWO-INCH



With Lock Nut, Ratchet Stop and 1 in. Test Gauge

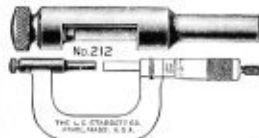
- Each
- No. 2—Measures 1 to 2 in. by Thousandths of an Inch, Weight Each 10 Oz.....\$11.00
- No. 213—Measures by Ten Thousandths as Well as Thousandths of an Inch.....12.75
- Leather Case—Extra.....1.60
- One in a Box.

STARRETT TWO-INCH WITH ATTACHMENT

- This is the regular No. 2 Starrett Micrometer fitted with No. 212 Attachment described below. Each
- No. 2A—Measures 0 to 2 in. by Thousandths of an Inch.....\$14.00
- Leather Case—Extra.....1.80

ATTACHMENT FOR STARRETT TWO-INCH MICROMETER CALIPERS

- Each
- No. 212—Attachment for Two-Inch Micrometer Calipers.....\$3.00



By means of this attachment a 2 in. micrometer caliper may be instantly converted into a 1 in. tool.

One in a Box.

BROWN & SHARPE TWO-INCH



With Clamp Ring

The range is obtained by an adjustable anvil which gives measurements from 0 to 1 in. when in position shown and from 1 to 2 in. when the anvil is drawn out. A standard is furnished for adjusting the micrometer. Decimal equivalents stamped on frame.

- Each
- No. 45—Measures 0 to 2 in. by Thousandths of an Inch, Weight Each 10 Oz.....\$13.50
- No. 45R—With Ratchet Stop.....14.00
- Leather Case—Extra.....1.60
- One in a Box.



With Clamp Ring

A standard is furnished for adjusting the micrometer. Decimal equivalents are stamped on frame.

- Each
- No. 47—Measures 1 to 2 in. by Thousandths of an Inch, Weight Each 10 Oz.....\$10.50
- No. 47R—With Ratchet Stop.....11.00
- Leather Case—Extra.....1.60
- One in a Box.



Reads Ten Thousandths, with Clamp Ring

A standard is furnished for adjusting the micrometer. Decimal equivalents are stamped on the frame.

- Each
- No. 48—Measures 1 to 2 in. by Ten Thousandths as Well as Thousandths, Weight Each 10 Oz.....\$12.25
- No. 48R—With Ratchet Stop.....12.75
- Leather Case—Extra.....1.60
- One in a Box.

BROWN & SHARPE THREE-INCH

For Measuring by Thousandths, 2 to 3 in. Each

- No. 50—Plain, Weight Each 14 Oz.....\$11.50
- No. 50RS—With Ratchet Stop.....12.00
- Standards—Extra.....1.25
- Leather Case—Extra.....3.00

LUFKIN THREE-INCH



Green Enameled Frame

- Each
- No. 1813—Plain, without Lock Nut or Ratchet Stop, for Measuring by Thousandths, 2 to 3 in.....\$ 7.75
- No. 1823—With Lock Nut, without Ratchet Stop, for Measuring by Thousandths, 2 to 3 in.....8.25
- No. 1823V—With Lock Nut, without Ratchet Stop, for Measuring by Ten Thousandths, 2 to 3 in.....9.75
- No. 1843—With Lock Nut and Ratchet Stop for Measuring by Thousandths, 2 to 3 in.....8.75
- No. 1843V—With Lock Nut and Ratchet Stop, for Measuring by Ten Thousandths, 2 to 3 in.....10.25
- 2 in. Test Gauges—Extra.....1.25
- Weight Each 12 Ounces.

One in a Hinged Wooden Box, with Clasp.

OUTSIDE MICROMETER CALIPERS

LUFKIN THREE INCH



For Measuring by Thousandths, 2 to 3 in.
Decimal Equivalents Stamped on Frame.

| | | |
|--|------|---------|
| No. 1613—Without Lock Nut or Ratchet Stop, with 2 in. Test Gauge..... | Each | \$12.75 |
| No. 1623—With Lock Nut, without Ratchet Stop, with 2 in. Test Gauge..... | | 13.75 |
| No. 1643—With Lock Nut and Ratchet Stop, with 2 in. Test Gauge..... | | 14.25 |

For Measuring by Ten Thousandths, 2 to 3 in.

| | | |
|--|------|---------|
| No. 1643V—With Lock Nut and Ratchet Stop, with 2 in. Test Gauge..... | Each | \$16.00 |
| Weight Each 12 Ounces. | | |
| One in a Hinged Wooden Box, with Clasp. | | |

BROWN & SHARPE IN SETS

With Clamp Rings, in Leather Case



| | | |
|---|---------|---------|
| No. 131—3 Micrometers, One Each No. 8, 1 in.; No. 47, 2 in. and No. 50, 3 in.; Measuring by Thousandths of an inch, with Standards..... | Per Set | \$37.75 |
| No. 131RS—With Ratchet Stops, Otherwise Same as No. 131..... | | 39.25 |

SLOCOMB ENAMELED FRAME



With Decimal Equivalents Stamped on Thimble

The "I" section frame gives great rigidity with little weight. The screw is all steel, working in a nut that gives about four times the bearing

surface of regular micrometers. Measures thousandths of an inch.

| | | | | | | | | | |
|-----------------------|--------|--------|--------|--------|--------|-------|--|--|--|
| Without Friction Stop | | | | | | | | | |
| Nos. | 25 | 27 | 28 | 28A | 28B | 28C | | | |
| Range, Inches. 0 to 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 | | | | |
| Each | \$6.25 | 7.00 | 8.00 | 8.50 | 9.25 | 10.00 | | | |

One in a Box.

STARRETT BLACK ENAMELED FRAME



No. 436—With Decimal Equivalents Stamped on Spindle

These Calipers meet the demand for accurate gauges at a low price. Graduated to read thousandths of an inch.

| | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|
| Size, Inches.... | 0 to 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 |
| With Ratchet..... | \$6.75 | 7.50 | 8.25 | 9.00 | 9.75 | 10.50 |
| Without Ratchet..... | 6.25 | 7.00 | 7.75 | 8.50 | 9.25 | 10.00 |
| Case—Extra | 1.25 | 2.50 | 3.00 | 3.50 | 4.00 | 4.75 |
| Standards—Ex..... | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | |

| | | | |
|--|---------|--------|--|
| In Sets, without Standards, without Ratchet Stop | | | |
| Set Nos. | 436A | 436B | |
| No. of Micrometers..... | 3 | 6 | |
| Range, Inches | 0 to 3 | 0 to 6 | |
| Per Set | \$21.00 | 48.50 | |
| Leather Case—Extra | 4.00 | 7.50 | |
| Standards—Extra | 2.25 | 7.50 | |

| | | | |
|---|---------|--------|--|
| In Sets, without Standards, with Ratchet Stop | | | |
| Set Nos. | 436C | 436D | |
| No. of Micrometers..... | 3 | 6 | |
| Range, Inches | 0 to 3 | 0 to 6 | |
| Per Set | \$22.50 | 51.75 | |

STARRETT DROP FORGED FRAME



No. 226—With Lock Nut

Frame Drop Forged from Bar Steel and Japanned except 1 in., which is Polished, Knurled Lock Nut, Sleeve and Ratchet Stop for Measurements by Thousandths of an inch. The 1 in. has the Decimal Equivalents Stamped on the Frame, the Other Sizes are Marked to Show their Capacity.

With Ratchet Stop

| | | | | | |
|----------------------|--------|--------|--------|--------|--------|
| Size, Inches..... | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 |
| Each | \$9.00 | 10.50 | 11.25 | 12.50 | 13.50 |
| Standard—Extra | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Leather Case—Ex..... | 2.50 | 3.00 | 3.50 | 4.00 | 4.75 |

Without Ratchet Stop

| | | | | | |
|-------------------|--------|--------|--------|--------|--------|
| Size, Inches..... | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 |
| Each | \$8.50 | 10.00 | 10.75 | 12.00 | 13.00 |

With Ratchet Stop, In Sets

| | | |
|--------------------------|---------|--------|
| Set Nos. | 226D | 226H |
| No. of Micrometers..... | 3 | 6 |
| Range, Inches | 0 to 3 | 0 to 6 |
| Per Set | \$29.50 | 66.75 |
| Standards—Extra | 2.25 | 7.50 |
| Leather Case—Extra | 4.00 | 7.50 |

Note—The regular No. 201 Starrett Micrometer is furnished in the 1 in. size.

Without Ratchet Stop, In Sets

| | | |
|-------------------------|---------|--------|
| Set Nos. | 226C | 226G |
| No. of Micrometers..... | 3 | 6 |
| Range, Inches | 0 to 3 | 0 to 6 |
| Per Set | \$28.00 | 63.75 |

Note—The regular No. 3 Starrett Micrometer is furnished in the 1 in. size.

BROWN & SHARPE REX



With Clamp Ring

Measure by thousandths of an inch. Nos. 77 to 88 have holes in the frame which make them light and convenient to handle. They also have the heavy type thimble, spindle and measuring screw.

| | | | | |
|-----------------------|--------|--------|--------|--------|
| Nos. | 61 | 63 | 65 | 67 |
| Capacity, Inches..... | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 |
| Weight Each, Lbs..... | 1 1/2 | 3/4 | 1 | 1 1/2 |
| Each | \$7.50 | 8.25 | 9.00 | 9.75 |
| Standards—Extra | 1.00 | 1.25 | 1.50 | 1.75 |
| Cases—Extra | 2.50 | 3.00 | 3.50 | 4.00 |

| | | | | |
|-----------------------|---------|--------|--------|--------|
| Nos. | 69 | 71 | 72 | 73 |
| Capacity, Inches..... | 5 to 6 | 6 to 7 | 7 to 8 | 8 to 9 |
| Weight Each, Lbs..... | 1 1/2 | 3 | 3 1/4 | 4 1/4 |
| Each | \$10.50 | 11.50 | 12.50 | 13.50 |
| Standards—Extra | 2.00 | 2.25 | 2.50 | 2.75 |
| Cases—Extra | 4.75 | | | |

| | | | |
|-----------------------|---------|----------|----------|
| Nos. | 74 | 75 | 76 |
| Capacity, Inches..... | 9 to 10 | 10 to 11 | 11 to 12 |
| Weight Each, Lbs..... | 6 1/4 | 7 1/4 | 7 1/2 |
| Each | \$14.50 | 15.50 | 16.50 |
| Standards—Extra | 3.00 | 3.25 | 3.50 |

Note—Any of these micrometers can be furnished with Ratchet Stop when so ordered at 50 cents each additional.

Nos. 61, 63 and 65 can be furnished to read to ten thousandths of an inch at an additional cost of \$1.50 each.

No. 71 and larger sizes are furnished in finished wooden cases with hinged covers. Be sure to state when ordering if standards are wanted.

OUTSIDE MICROMETER CALIPERS

LUFKIN FOUR, FIVE AND SIX INCH



Green Enameled Frame

These micrometers are popular in work not requiring the finest finished tool, and they are correspondingly lower in price. They are made of high grade specially selected materials throughout, and are of identically the same construction as the full finished micrometers and are thoroughly reliable in every way. They are furnished with cut-away frames.

For Measuring by Thousandths, 3 to 4 in.

| | Each |
|--|---------|
| No. 1814—Without Lock Nut or Ratchet Stop.... | \$ 8.50 |
| No. 1824—With Lock Nut, without Ratchet Stop.. | 9.00 |
| No. 1834—Without Lock Nut, with Ratchet Stop.. | 9.00 |
| No. 1844—With Lock Nut and Ratchet Stop..... | 9.50 |
| 3 in. Test Gauge—Extra..... | 1.50 |

For Measuring by Thousandths, 4 to 5 in.

| | |
|--|-------|
| No. 1815—Without Lock Nut or Ratchet Stop.... | 9.25 |
| No. 1825—With Lock Nut, without Ratchet Stop.. | 9.75 |
| No. 1835—Without Lock Nut, with Ratchet Stop.. | 9.75 |
| No. 1845—With Lock Nut and Ratchet Stop..... | 10.25 |
| 4 in. Test Gauge—Extra..... | 1.75 |

For Measuring by Thousandths, 5 to 6 in.

| | |
|--|-------|
| No. 1816—Without Lock Nut or Ratchet Stop.... | 10.00 |
| No. 1826—With Lock Nut, without Ratchet Stop.. | 10.50 |
| No. 1836—Without Lock Nut, with Ratchet Stop.. | 10.50 |
| No. 1846—With Lock Nut and Ratchet Stop..... | 11.00 |
| 5 in. Test Gauge—Extra..... | 2.00 |

One in a Hinged Wooden Box with Clasp.

LUFKIN ONE TO FOUR INCH

Green Enameled Frame, with Interchangeable Anvils

The outstanding features of these micrometers are accuracy, simplicity of construction, ease of adjustment and fine design.



For Measuring Thousandths, 1 to 4 in.

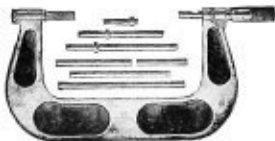
| | Each |
|--|---------|
| No. 824A—With Lock Nut, without Ratchet Stop.. | \$20.75 |
| No. 844A—With Lock Nut and Ratchet Stop..... | 21.25 |
| One in a Hinged Wooden Box with Clasp. | |

LUFKIN TWO TO SIX INCH

For Measuring Thousandths, 2 to 6 in.

| | Each |
|--|---------|
| No. 826A—With Lock Nut, without Ratchet Stop.. | \$26.50 |
| No. 846A—With Lock Nut and Ratchet Stop..... | 27.00 |
| One in a Hinged Wooden Box with Clasp. | |

BROWN & SHARPE TWO TO SIX INCH



With Clamp Ring

The range of measurements is obtained by changeable anvils which are easily and quickly changed and are held in place by a knurled nut. Each anvil has separate means of adjustment for wear. Price includes a finished wood case.

| | Each |
|---|--------------------|
| No. 55—Measures 2 to 6 in. by Thousandths of an inch..... | \$20.00 |
| No. 55RS—With Ratchet Stop..... | 20.50 |
| Standards—Extra..... | Per Set of 4, 6.50 |

STARRETT TWO TO SIX INCH

With Lock Nut



Designed for automobile repair men to meet the demand for cylinder regrinding and reboring shops. It will measure all ordinary pistons.

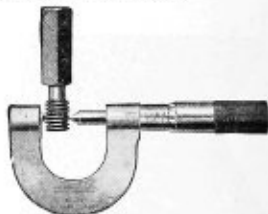
This micrometer is well balanced and the shape of the forged frame with the holes, makes it easy to handle. Each anvil has two adjusting nuts to take care of the wear and act as a seat when held in position by the knurled nut. Suitable wrenches are furnished to make any adjustment. Decimal equivalents are stamped on the thimble.

| | Each |
|---|---------|
| No. 224A—Measures 2 to 6 in. by Thousandths of an inch..... | \$20.00 |
| No. 224A-R—With Ratchet Stop..... | 20.50 |
| Standards—(Set of 4) Extra..... | 6.50 |
| Leather Case—Extra..... | 4.00 |
| Note—Sent with Standards and without Case unless otherwise ordered. | |

BROWN & SHARPE SCREW THREAD

For Measuring Screw Threads

The distinctive feature in the construction of this Caliper is that the end of the movable spindle is pointed, and the fixed end or "anvil" is V-shaped. Enough is taken from the end of the point and the bottom of the V is carried down low enough, so that they will not rest on the bottom or top of the thread to be measured, but on the cut surface. As the thread itself is measured, it will be seen that the actual outside diameter of the piece does not enter into consideration. And as one-half of the depth of the thread from the top on each side is measured, the diameter of the thread as indicated by the Caliper, or the pitch diameter, is the full size of the thread less the depth of one thread.



Furnished U. S. Standard or V Thread

| Nos. | 150 | 152 | 153 |
|------------------------|----------|----------|------------|
| Capacity, Inches..... | 1/2 | 1 | 1 |
| Thread Range Per Inch. | 48 to 64 | 8 to 13 | 14 to 20 |
| Each..... | \$11.50 | 12.00 | 12.00 |
| Leather Case—Extra.... | 1.20 | 1.25 | 1.25 |
| Nos. | 154 | 155 | 156 |
| Capacity, Inches..... | 1 | 1 | 2 |
| Thread Range Per Inch. | 22 to 30 | 32 to 40 | 4 1/2 to 7 |
| Each..... | \$12.00 | 12.00 | 14.50 |
| Leather Case—Extra.... | 1.25 | 1.25 | 1.60 |
| Nos. | 157 | 158 | 159 |
| Capacity, Inches..... | 2 | 2 | 2 |
| Thread Range Per Inch. | 8 to 13 | 14 to 20 | 22 to 30 |
| Each..... | \$14.50 | 14.50 | 14.50 |
| Leather Case—Extra.... | 1.60 | 1.60 | 1.60 |

LUFKIN SCREW THREAD



Furnished with Either Fixed or Movable Anvils

| Nos. | 611T | 611T | 611T | 611T |
|-----------------------|------------|----------|----------|----------|
| Capacity, Inches..... | 1 | 1 | 1 | 1 |
| Thread Range..... | 8 to 13 | 14 to 20 | 22 to 30 | 32 to 40 |
| Weight Each, Oz..... | 8 | 8 | 8 | 8 |
| Each..... | \$12.00 | 12.00 | 12.00 | 12.00 |
| Nos. | 612T | 612T | 612T | 612T |
| Capacity, Inches..... | 2 | 2 | 2 | 2 |
| Thread Range..... | 4 1/2 to 7 | 8 to 13 | 14 to 20 | 22 to 30 |
| Weight Each, Oz..... | 10 | 10 | 10 | 10 |
| Each..... | \$14.50 | 14.50 | 14.50 | 14.50 |

One in a Hinged Wooden Box with Clasp.

TUBE MICROMETER CALIPERS

LUFKIN



For Measuring the Thickness of Tubing

End of anvil is rounded so it touches at one point on the inside of tube and the end of spindle is flat, so it touches at only one point on the outside, thus giving exact thickness. The frame is cut away to give clearance. Decimal equivalents are stamped on back of frame. With Ratchet Stop.

No. 2630—Measures 0 to $\frac{1}{2}$ in. by Thousandths of an Inch, Weight Each 3 Oz. \$8.00
One in Hinged Wooden Box, with Clasp.

BROWN & SHARPE



For Measuring the Thickness of Tubing

The anvil is rounded on the end and the back of the frame at the anvil is cut away to fit into tubing $\frac{1}{16}$ in. diameter or larger. Decimal equivalents of English Standard Gauge are stamped on back of frame.

No. 225—Measures 0 to $\frac{1}{2}$ in. Thousandths of an Inch, Weight Each 3 Oz. \$8.00
No. 225RS—With Ratchet Stop. 8.50
Leather Case—Extra 1.20
One in a Box.

PAPER GAUGE MICROMETER CALIPERS

BROWN & SHARPE



For Gauging Paper, Rubber and Other Soft Materials

Large Measuring Surfaces do not compress the material as much as the regular anvil and spindle thus allowing measurements to be taken more quickly and accurately. Decimal equivalents stamped on frame.

No. 230—Measures 0 to $\frac{3}{8}$ in. by Thousandths of an Inch, Weight Each 3 Oz. \$ 9.50
No. 230RS—With Ratchet Stop. 10.00
Leather Case—Extra 1.20

MICROMETER HEADS

LUFKIN



With Ratchet Stop

These heads are easily attached to tools, machines, special gauges, etc., and are so used where measurements with micrometer accuracy are required.

No. 030—Measures 0 to $\frac{1}{2}$ in. by Thousandths of an Inch, Weight Each 1 $\frac{1}{2}$ Oz. \$4.50
No. 030V—Measures 0 to $\frac{1}{2}$ in. by Ten Thousandths of an Inch, Weight Each 1 $\frac{1}{2}$ Oz. 6.25
No. 031—Measures 0 to 1 in. by Thousandths of an Inch, Weight Each 4 Oz. 5.50
No. 031V—Measures 0 to 1 in. by Ten Thousandths of an Inch, Weight Each 4 Oz. 7.25
One in a Box.

INSIDE MICROMETER CALIPERS

LUFKIN

Micrometer Head and Tubular Extension Rods

For measuring by thousandths of an inch. Head measures from $\frac{1}{2}$ in. Rods can be added to either end of the Micrometer Head.



Sets 680A and 680B have $\frac{1}{2}$ in. movement of screw. Sets 681C to 681K have 1 in. movement.

| Nos. | 680A | 680B | 681C | 681D | 681K |
|----------------|------------------------------------|---------|---------|---------|---------|
| Range, Inches. | 1 $\frac{1}{2}$ to 8 $\frac{1}{2}$ | 1 to 12 | 4 to 24 | 4 to 32 | 4 to 40 |
| No. of Rods. | 5 | 8 | 7 | 8 | 10 |
| Wt. Each, Oz. | 8 $\frac{1}{2}$ | 12 | 27 | 39 | 48 |
| Each | \$12.00 | 15.00 | 18.00 | 20.00 | 24.00 |

One in a Hinged Wooden Box, with Clasp.

STARRETT



For Internal and Linear Measurements

It is also useful in measuring parallel surfaces. The micrometer screw in the head has $\frac{1}{2}$ in. movement in Sets A and B, 1 in. in Set C, and, by means of the extension rods furnished, the sizes as given below for each set can be obtained. The extension rods are provided with a collar, against which rods are conveniently and accurately set in the micrometer head. In setting these rods see that the zero mark on the collar coincides with the zero mark on the micrometer head. With the rods are sent standard gauges or rings to slip on the rods under the collars, to further extend the rod. The contact surfaces are all hardened, and provision is made for adjustment, to compensate for wear of the screw and contact surfaces.

Per Set

No. 124A—Measures 2 to 8 in. by Thousandths of an Inch, Has Six Rods and One $\frac{1}{2}$ in. Gauge. \$ 7.25
No. 124B—Measures 2 to 10 in. by Thousandths of an Inch, Has Ten Rods and One $\frac{1}{2}$ in. Gauge. 8.50
No. 124C—Measures 8 to 32 in. by Thousandths of an Inch, Has Four Rods, One 1 in. and One 2 in. Gauge 10.25
No. 124D—Measures 2 to 32 in., Comprising Sets A and C 17.50
Auxiliary Handle—Extra 1.00

Leather Cases

For Micrometer, Nos. 124A 124B 124C 124D
Each \$1.75 2.75 4.00 5.00

Note—Always sent with Leather Case unless otherwise ordered.

AUXILIARY HANDLE



Used in Connection with No. 124 Inside Micrometers

By removing the nut opposite the lock screw and screwing the handle in place of same to take measures in holes where the micrometer could not be used otherwise. Each No. 124H—Handle Only \$1.00

HEIGHT GAUGE ATTACHMENT

Used in Connection with No. 124 Inside Micrometers

For use as a height gauge. The anvil end is even with the bottom of the base and the micrometer is held perpendicularly, making a reliable gauge. A slight turn of the knurled screw instantly clamps it to or releases it from the base.



Each
No. 447—Attachment Only \$2.50

INSIDE MICROMETER CALIPERS

BROWN & SHARPE

Particularly Adapted for Motor Service



For measuring cylinder bores, rings, and any other inside measuring jobs. It consists of a holder with a half inch micrometer screw and extension rods. The holder of this tool has a clamping device which clamps the thimble and prevents the screw from turning when in use.

Per Set

No. 264—With 6 Rods, Measures 2 to 8 in., by Thousandths of an Inch.....\$10.00
Leather Case—Extra 1.75

The collar which is provided with this micrometer slips over the end of the rod and can be set accurately against the micrometer head. In order to obtain the full one inch range with each rod, the spacing collar must be added.

Note—Always sent with leather case unless otherwise ordered.

BROWN & SHARPE IMPROVED



With Clamp Screw

For measuring small internal dimensions over a shoulder. Measuring surfaces are hardened and ground to a radius to insure accurate measurements and prevent cramping when measuring parallel surfaces.

Each

No. 250—Measures .200 to 1 in., by Thousandths of an Inch\$14.00
Leather Case—Extra 1.25

One in a Box.



With Clamp Screw

The shape of the jaws of this tool enables the user to take inside measurements over a flange or shoulder.

Each

No. 252—Measures $\frac{1}{2}$ to $1\frac{1}{2}$ in. by Thousandths of an Inch\$15.00
Leather Case—Extra 1.25

No. 254—Measures 1 to 2 in. by Thousandths of an Inch 15.00
Leather Case—Extra 1.60

One in a Box.

MICROMETER CALIPER GAUGES

STARRETT



Made of Steel Throughout, Nicely Finished

Each

No. 126— $2\frac{1}{2}$ in., with 5 Rods, Capacity from $2\frac{1}{2}$ to 10 in.\$3.00
No. 126C—With Leather Case..... 4.25

These Micrometer Caliper Gauges are designed for close internal measurements, indicating thousandths when a definite distance in inches is not essential. The body of the tool is a steel tube, provided at one end with a binding chuck in which are fastened the plain rods, and it can be quickly adjusted to any approximate size. Anvil in end of sheave is hardened.

One Set in a Box.

ADJUSTABLE CALIPER GAUGES

STARRETT



Provided with Binding Posts at Each End

For internal measurements of large cylinders and of distances between uprights.

Per Set

No. 125A— $2\frac{1}{2}$ in., with 3 Rods, Capacity $2\frac{1}{2}$ to $6\frac{3}{4}$ in.\$1.75
No. 125B—6 in., with 3 Rods, Capacity 6 to 16 in. 2.00
One Set in a Box.

TELESCOPING INSIDE GAUGES

STARRETT

With Hardened Heads



These are instruments from which the exact size of holes or slots can be taken by an outside caliper or micrometer, so that shrink, close or loose fits, varying in thousandths or less can be made and measured.

| Nos. | 229A | 229B | 229C |
|---------------|--------------------------------|---------------------------------|----------------------------------|
| Range, Inches | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{3}{4}$ to $1\frac{1}{4}$ | $1\frac{1}{4}$ to $2\frac{1}{2}$ |
| Each | \$1.80 | 2.10 | 2.40 |

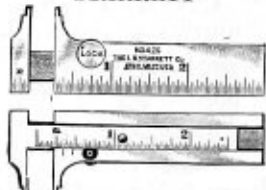
| Nos. | 229D | 229E |
|---------------|----------------------------------|---------------------|
| Range, Inches | $2\frac{1}{2}$ to $3\frac{1}{2}$ | $3\frac{1}{2}$ to 6 |
| Each | \$3.00 | 3.60 |

In operating these gauges the telescoping head is compressed and the plunger is locked by a slight turn of the knurled screw at end of handle. When locked the head retains the measurement taken until released.

One in a Box.

POCKET SLIDE CALIPERS

STARRETT



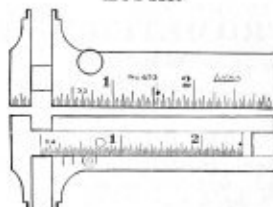
No. 425—For Outside or Inside Measurements

With Improved Clamping Device, Graduated in 32nds and 64ths.

| Length, Inches | 3 | 5 |
|--------------------------|----------------|-----------------|
| Depth of Jaws, Inches | $\frac{1}{16}$ | $1\frac{1}{16}$ |
| Nibs when Closed, Inches | .125 | .250 |
| Each | \$4.00 | 5.00 |

One in a Box.

LUFKIN



For Outside or Inside Measurement

With Improved Clamping Device, Graduated in 32nds and 64ths. The Slide has a Stop which prevents it from being withdrawn.

| Nos. | 453 | 455 |
|--------------------------|----------------|-----------------|
| Length, Inches | 3 | 5 |
| Depth of Jaws, Inches | $\frac{1}{16}$ | $1\frac{1}{16}$ |
| Nibs when Closed, Inches | $\frac{1}{8}$ | $\frac{3}{4}$ |
| Each | \$4.00 | 5.00 |

One in a Box.

CIRCUMFERENCE GAUGES

LUFKIN



For Outside and Inside Circumference Each
 No. 455P—5 in., Capacity $3\frac{3}{4}$ in. Diameter, $11\frac{3}{4}$ in. Circumference, Depth of Jaws $1\frac{1}{2}$ in. Will Caliper Cylinder Up to $2\frac{3}{4}$ in. Diameter. Graduated on Slide Circumference inches to 16ths Upper Edge, Standard inches to 32nds Lower Edge, Stock Graduated 5 in. to 32nds in., Weight Each 3 Oz. \$4.75
 This Gauge can also be used as a regular Pocket Slide Caliper. Measurements are read to a line rather than to face of jaw and reading lines are clearly marked "Out or In." Nibs when closed are $\frac{1}{4}$ in. wide.

One in a Box.

CALIPER SQUARES

BROWN & SHARPE



For Inside or Outside Measurements

Convenient for a large class of work where extreme accuracy is not required, also valuable for use in duplicating work when the number of pieces will not warrant the expense of fixed gauges.

The adjusting screw enables the sliding head to be more accurately set to the graduations than would be possible without its use. Graduations on one side to 64ths, other side to 100ths of an inch.

With Adjusting Screw

| Nos. | 560A | 560B | 560C |
|---------------------------|----------------|---------------|----------------|
| Size, Inches | 4 | 6 | 9 |
| Length of Jaws, Inches | $1\frac{1}{2}$ | 2 | $3\frac{1}{4}$ |
| Width of Jaws Closed, In. | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{3}{8}$ |
| Each | \$10.20 | 13.20 | 17.40 |
| Case Extra | 1.75 | 2.00 | 3.00 |

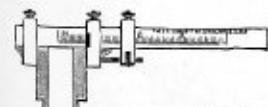
Without Adjusting Screw

| Nos. | 560D | 560E | 560F |
|--------------|--------|-------|-------|
| Size, Inches | 4 | 6 | 9 |
| Each | \$9.00 | 10.80 | 15.00 |

One in a Box.

STARRETT

For Inside or Outside Measurements



The sliding head can be accurately set to the graduations by means of the adjusting screws. The beam is graduated 64ths and 100ths.

With Adjusting Screw

| Nos. | 25A | 25B | 25C |
|------------------------------|----------------|----------------|----------------|
| Size, Inches | 3 | 4 | 6 |
| Depth of Jaws, Inches | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{1}{2}$ |
| Width of Nibs Closed, Inches | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |
| Each | \$8.00 | 10.20 | 12.00 |
| Case Extra | .75 | 1.75 | 2.00 |

One in a Box.

VERNIER CALIPERS

BROWN & SHARPE

For Inside or Outside Measurements

Graduated on both Front and Back, by means of a Vernier, to thousandths of an inch. The jaws are hardened and ground. Points are placed on the bars and slides so that dividers can be set to transfer distances.



| Nos. | 570A | 570B | 570C | 570D |
|------------------------|----------------|----------------|----------------|----------------|
| Size, Inches | 6 | 12 | 24 | 36 |
| Length of Jaws, Inches | $1\frac{1}{4}$ | $2\frac{1}{4}$ | $2\frac{1}{4}$ | $2\frac{3}{4}$ |
| Width of Jaws, Closed | $\frac{1}{4}$ | $3/10$ | $3/10$ | $\frac{1}{2}$ |
| Each | \$24.00 | 30.00 | 42.00 | 72.00 |
| Case Extra | 2.75 | 4.00 | 5.00 | 15.00 |

One in a Box.

SURFACE GAUGES

BROWN & SHARPE

With Grooved Base

With these Surface Gauges a wide range of adjustments can be quickly obtained by means of a knurled adjusting screw. The maximum adjustment can be quickly obtained, and at the same time the adjustment is so arranged that all moving parts can be firmly clamped in position when the desired setting has been obtained.

A V-shaped groove in the bottom of the base adapts these gauges for cylindrical work.



| Nos. | 622A | 622B | 622C | 622D |
|--|--------|------|------|------|
| With 12 in. Spindle and 4x3 3/4 in. Base | \$4.15 | | | |
| With 12 and 18 in. Spindle, 4x3 3/4 in. Base | | 4.75 | | |
| With Hardened Steel Base, Otherwise Same as No. 622A | | | 5.40 | |
| With Hardened Steel Base, Otherwise Same as No. 622B | | | | 6.00 |

The Base of these Gauges are furnished with two gauge pins in the rear end that can be pushed down and used against the edge of a plate or side of a T slot.

One in a Box.

STARRETT UNIVERSAL

With Grooved Base

In the rear end of the base are two gauge pins, frictionally held, which may be pushed down to bear against the edge of a surface plate or in the slot of a planer bed for linear work.

| Nos. | 57A | 57B | 57C | 57D |
|---|--------|------|------|------|
| 3 in. Base, with 9 in. Spindle | \$3.50 | | | |
| 3 in. Base, with 9 and 12 in. Spindles | | 4.00 | | |
| 3 3/4 in. Base, with 12 in. Spindle | | | 4.15 | |
| 3 3/4 in. Base, with 12 and 18 in. Spindles | | | | 4.75 |



With Case Hardened Grooved Steel Base

| Nos. | 257A | 257B | 257C | 257D |
|---|--------|------|------|------|
| 3 in. Base, with 9 in. Spindle | \$4.75 | | | |
| 3 in. Base with 9 and 12 in. Spindles | | 5.25 | | |
| 3 1/2 in. Base, with 12 in. Sp'dle | | | 5.40 | |
| 3 1/2 in. Base, with 12 and 18 in. Spindles | | | | 6.00 |

In the base are four gauge pins, frictionally held, which may be pushed to bear against the edge of a surface plate, or in the slot of a planer bed for linear work.

One in a Box.

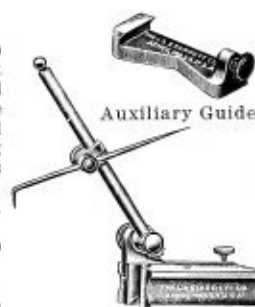
STARRETT TOOLMAKERS

With Case Hardened Grooved Steel Base

Milled sizes for finger grip. Top side slotted and rocking bracket pivoted in same. There is a small hole in the clamp next to the base in which the scriber may be used for light work, the spindle being removed. An auxiliary guide is furnished to clamp to the base.

| Nos. | 56A | 56B |
|--|--------|------|
| With 4 in. Spindle and Auxiliary Guide | \$4.10 | |
| Same as No. 56A, but without Auxiliary Guide | | 3.50 |

One in a Box.



DIAL TEST INDICATORS

STARRETT UNIVERSAL

Simple, Reliable, Easily Read
and Very Sensitive

Slightest pressure upon contact point produces a movement of the hand on the dial. Circumference of dial divided into 100 equal spaces, each representing a movement of the contact point of one-thousandth of an inch. One revolution of the hand therefore indicates one-tenth inch, the capacity of the instrument being two-tenths. By bringing the contact point against the work with just enough pressure to give the hand one full turn, then setting it at 0, an opportunity is given for one full revolution of the hand to both right and left of 0, showing a rise or drop in the work and the amount of variation. A most valuable feature is the adjustable dial.



| | |
|---|---------|
| No. 196A—Indicator with All Attachments, as Shown | \$13.50 |
| No. 196B—Indicator Only, with 3 Contact Points | 9.00 |
| No. 196F—Hole Attachment | 1.80 |
| No. 196G—Clamp | .90 |
| No. 196H—Tool Post | .90 |
| No. 196K—Sleeve | .90 |
| Extra Contact Points | .15 |
| One Set in a Box. | |

BROWN & SHARPE

In a Finished Wood Case

This Indicator is especially serviceable to erectors or inspectors of machines, for determining the inaccuracy in a surface or the movements of a spindle or arbor, etc., also to tool makers for obtaining comparative measurements on very close work.



| | |
|---|---------|
| No. 730—Spindle Movement $\frac{3}{16}$ in. by Thousandths, Diameter of Dial 1 $\frac{1}{4}$ in., Length of Base 8 $\frac{1}{2}$ in., Width 2 $\frac{1}{4}$ in. | \$30.00 |
|---|---------|

The pointer is very sensitive and the graduations are widely placed so that half or quarter thousandths can be estimated. The dial has a white enamel face and may be turned to bring the zero under the index pointer. The points of the indicator spindle can be removed and different lengths and forms of points used.

The horizontal arm is adjustable to any angle, it can be removed also and used independently as in the tool post of a lathe. The blocks which fit into the T slot in the base permit its being used against the edge of a surface plate or T slot, for checking the accuracy of long horizontal surfaces.

In Finished Wood Case.

LATHE TEST INDICATORS

BROWN & SHARPE



With Hardened Steel Shank

This Indicator is for centering work in a lathe, testing lathe centers, shafting, and work of a similar nature. The shank is made of hardened steel. It can be held in the tool post of a lathe and adjusted either upwards or downwards and readings obtained. The indicator point is of hardened steel, spherical in shape, allowing pressure to be brought upon it from any angle in taking readings. Each

| | |
|---|---------|
| No. 738—Range 0 to .007 in. Either Side of Zero by Thousandths of an Inch | \$10.00 |
| One in a Box. | |

TEST INDICATORS

STARRETT UNIVERSAL

Graduated to Read .015 Inches
Either Side of Zero

This Indicator may be used to test inside, outside or surface work. It can be instantly attached to the spindle or the needle of any surface gauge, and used to show the slightest variation in thousandths. It may be clamped to a flat or round support, up to $\frac{3}{4}$ in. flat or round. A special holder as shown above, is designed to go in the tool post of a lathe, adapting it for use to show the accuracy of all sorts of lathe work, chucking, or locating and centering work on face plate.

The head of the needle has three working points, equally distant from its fulcrum, so the telltale needle will vibrate, reading in thousandths, when work is in contact with either point—in front, above or below it. When in front, the spring operating the telltale needle needs to be reversed to throw point of needle up instead of down as when used above or below the work. This may be instantly done by a slight turn of the disc to which the vibrating spring is attached. The working parts of the head are hardened.



| | |
|---|--------|
| No. 64A—Indicator, Complete with Tool Post Holder and Arm | \$4.25 |
| No. 64B—Indicator Only | 3.00 |
| No. 64C—Tool Post Holder without Arm, $\frac{3}{4}$ x $\frac{1}{4}$ x 6 in. | .90 |
| No. 64D—Tool Post Holder, with Arm | 1.25 |
| One in a Box. | |

STARRETT CENTER TESTER

Improved Design

Designed to use in adjusting and locating centrally any point or hole in a piece of work operated upon in a lathe chuck or on a face plate, also to test the truth of lathe centers or a shaft between the centers, the instrument being held in the tool post.

This instrument is pinned to a tool-post shank by a flexible steel ribbon with sufficient spring to properly hold the needle in contact with the work.

It is a tool in every up-to-date tool room.

| | |
|---|--------|
| No. 65—Indicating Needle 12 $\frac{3}{4}$ in. Long when Joined, with Steel Ball, .175 in. Diameter to Slip Over Point for Inside Work | \$3.75 |
|---|--------|

KOCH UNIVERSAL



With Safety Feature

Two points of contact, a Plunger and Bell Crank, which gives it a broad universal range. Each graduation represents .001 movement of the plunger or .002 movement of the bell crank.

Adapted for testing Arbors, Mandrels, Lathe Centers, etc. The plunger operates away from the lever instead of against it, this Safety Feature prevents delicate parts being broken by jolt of the plunger.

| | |
|-------------------|--------|
| No. K-1—Indicator | \$5.50 |
| One in a Box. | |

MILLING MACHINE WIGGLERS



With Reversible Point

For Jig and Tool Work, locating center of work on Milling Machines, Drill Presses, etc.

| | |
|---|--------|
| No. 18—4 $\frac{1}{8}$ in. Long Open, 2 $\frac{3}{8}$ in. Closed, Point 1 $\frac{1}{4}$ in., Diameter Chuck $\frac{1}{2}$ in. | \$1.50 |
| One in a Box. | |

SPEED INDICATORS

BROWN & SHARPE

**Insulated Fibre Handle**

Nickel plated case dull finish, all working parts enclosed, registers up to 5,000 revolutions, faster speeds can be readily determined. All readings are taken from one side of indicator, the two arrows on face of dial eliminates any confusion. The figures showing through the small round windows on the dial read every five revolutions. The inside dial reading every 100 revolutions is quickly returned to zero for repeated use by a knurled knob on the back of the indicator.

Each

No. 748—With One Steel Tip for Regular Speed and Two Rubber Tips for High Speeds, Weight Each

6 Oz. \$6.75

Leather Case—Extra 1.50
One in a Box.

STARRETT

Each Speed Indicator is provided with Three Styles of Tips, a Pointed Steel Tip which forms the end of the Spindle, and Two Rubber Tips which may be slipped over the Pointed Metal Tip, so that no matter what shape of the shafting nor how it is centered it will be possible to determine the speed accurately.

Knurled Handle

Each

No. 104—Nickel Plated, with Rubber Tips for Pointed and Hollow Centers, Wt.

Each 5 Oz. \$1.25

Leather Case, Extra 1.35

This Indicator may be run at highest speed required without heating, and this on account of a frictionless bearing against which the inner end of the Spindle revolves.

**Improved**

Each

No. 106—Nickel Plated, Rubber Handle with Rubber Tips for Pointed and Hollow Centers, Weight

Each 4½ Oz. \$1.85

Leather Case, Extra 1.35

A nicely made and finely working indicator. The graduations show every revolution, and with two rows of figures read both right and left as the shaft may run.

Registering

Each

No. 107—Nickel Plated, Rubber Handle, with Rubber Tips for Pointed and Hollow Centers, Weight Each

5 Oz. \$3.60

Leather Case, Extra 1.50

Automatically registers hundreds as well as units and tens, and thus releases the mind from keeping tally. Will register 5000 revolutions.

One in a Box.

SURFACE SPEED ATTACHMENTS

FOR STARRETT SPEED INDICATORS

Rubber Banded Wheel

No. 109

Designed to show the number of lineal feet per minute the periphery of a shaft or pulley is running and thus enable a workman to know if the speed is too fast or is too slow to get the most work the tool will stand.

May be slipped off or on the spindle of the indicator, and when held against the periphery of a shaft or pulley a half minute or a minute, by dividing the figures

showing the revolutions on the dial of indicator by 2, the number of feet the surface of the thing is traveling is obtained.

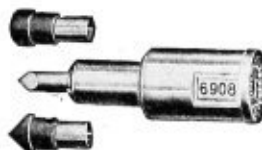
Each

No. 109—Attachment, Weight Each 1 Oz. \$0.60
One in a Box.

COUNTERS

VEEDER CLUTCH SPEED

Registers Revolutions Per Minute



For Engines, Motors, Line Shafting, Machine Spindles, etc.

A stop watch is not needed because of the clutch in the counter. The plain figure index is easy to read and avoids errors.

It is never necessary to set the instrument. Speeds as high as

5000 R. P. M. can be safely measured. Two rubber tips, one pointed and the other flat, are furnished with each instrument.

Each

No. 21—Nickel Plated, with Two Rubber Tips. \$3.50
One in a Box.

VEEDER DIRECT SPEED

Registers Revolutions Per Minute

Direct Driven, with Pointed Rubber Tip. The End Thrust is taken up by a ball bearing which reduces friction.



Each

No. 22—Nickel Plated, with One Rubber Tip. \$2.50
One in a Box.

VEEDER SMALL REVOLUTION

For Light Fast Running Machines

Though small, this counter is very durable; its mechanism will stand a very high rate of speed, making it especially suitable for light, fast-running machines. Will subtract if run backward.

Each

No. 4—Nickel Plated. \$2.00

One in a Box.

VEEDER RATCHET

With Outside Stops

This Counter is supplied with outside stops which regulate the throw of the lever.

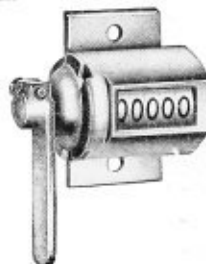
The lever is adjustable, allowing the counter to be used at any angle.

It is supplied with a return action spring which automatically returns the lever into position for the next count.

Each

No. 14—Nickel Plated. \$2.50

One in a Box.

**VEEDER SET-BACK RATCHET**

Registers One for Each Throw of Lever

Moving through an angle of 45 degrees

It can be reset to zero by turning knob once around. Equipped with spring to return the lever to its operating position.

Each

No. Z13—Nickel Plated, with 5 Figures. \$6.00

This Counter can be furnished with a thumb lever for hand purposes.

One in a Box.



COUNTERS

VEEDER SET-BACK REVOLUTION

For Recording Production of
Machines

Check up operator's work, register revolutions of a shaft or reciprocating movements, where these correspond with the operation of a machine. Each

No. AA13—Nickel Plated, 5
Figures \$6.00



VEEDER STAR REVOLUTION

Registers in Either Direction
Registers one figure when
steer wheel is moved one point
or one-fifth of a revolution. It
is operated by a pin or roller on
a revolving part of the machine
to which it is attached. Each

No. 7—Nickel Plated with
5 Figures \$2.25
One in a Box.

HAND TALLY REGISTERS
VEEDER

Nickel Plated

The Case is small with round corners, so as not to irritate the hand or wear the pocket, used as a traffic register by conductors, gatemen, steamboat inspectors; as an attendance register by theatres, libraries, churches; as a stock counter by concerns taking inventory; as a pole counter by telephone and electric line crews; as a tree counter by nurserymen and foresters. Also used in mines, lumber camps, ranches, stockyards. Registers one for each pressure of thumb lever and sets back to zero from any figure by one turn of knob at right. Each

No. AB2—Registers 0 to 9999 \$5.00
One in a Box.



BENTON

Nickel Plated

Used by railroad men, telegraph and steamboat men for checking in passengers and all kinds of freight, by conductors, waiters, traffic officers, ticket takers, stores, theatres, mines, lumber camps, etc. Each

No. 0—Registers 1 to 1000 \$4.00

It can be carried in the vest pocket, takes up no more space than a watch. Can be set at zero when new count is desired. One in a Box.

CYLINDER GAUGES
STARRETT

For Motor Service Station

After the variation of the bore has been determined, note the reading on the dial and transfer to an outside micrometer for diameter.

Of rugged construction with a nonbreakable crystal over the dial. The dial is mounted on a block which moves at right angles to the sled. The sled has two line contact points. Two hardened contact points independently cause the hand to travel over the dial reading in .001 and with a unique double spring action makes the gauge self-centering and absolutely non-collapsible.

Provisions for diameters varying from 2 1/2 to 6 in. are made by two adjustable rods carried in the hollow handle.

Nickel Plated

No. 452—Weight Each 12 Oz. \$15.00



ENGINEERS GAUGES

STARRETT

Taper, Wire and Thickness
Gauge

This Gauge is especially designed for the use of marine engineers, machinists and others desiring a set of gauges in compact form.

The taper gauge shows the thickness in 64ths to 1/2 of an inch on one side, and on the reverse side is graduated as a rule 3 in. of its length, reading in 8ths and 16ths of an inch.

The wire gauge, English Standard, shows, on one side sizes numbered from 19 to 36, with two extra slots, one 1/16 the other 1/8 of an inch, and on the reverse side shows the decimal equivalents expressed in thousandths. This gauge has also 9 thicknesses or feeler gauge leaves, approximately 4 in. long, of the following thicknesses: .002, .003, .004, .006, .008, .010, .012, .015 and 1/16 of an inch all folded within the case, which is convenient to handle or to carry in the pocket. Each

No. 245—Case 4 3/4 in. Long. \$5.00
One in a Box.

TAPER GAUGES
STARRETT

For Determining Size of Holes
in Dies, etc.
Made from Spring Tempered
Stock. Each

No. 269A—2 1/2 in. Long,
with 8 Leaves, Gradu-
ated to Read 1/10 to 1/2
in. by Thousandths of
an Inch. \$5.50

No. 269B—2 3/4 in. Long, with 10 Leaves, Graduated
to Read 1/2 to 1 in. by Thousandths of an Inch. \$6.75
One in a Box.

FILLET OR RADIUS GAUGES
STARRETT

With Concave and Convex
Leaves

This Gauge may also be described as a concave and convex gauge, and is especially adapted for use in laying out special forming tools, dies, etc., as well as for measuring fillets. Each

No. 178A—Has 30 Leaves Stamped to Indicate Radii
by 64ths, from 1/32 to 1/4 in. (One-half Diametric
Size). Diameters are from 1/16 to 1/2 in., Varying by
32nds \$1.50

No. 178B—Has 32 Leaves Stamped to Indicate Radii
by 64ths, from 1/16 to 1/2 in., Diameters are from 1/16
to 1 in., Varying by 32nds 2.00



Affords Means of Obtaining the Radii of Fillets,
Corners, etc.

Each blade is stamped with the radius in 64ths, the external being on one side and the internal on the other. It can be used in any position or at any angle, the formation allowing it to be used up to a shoulder, and for duplicating sample pieces. The studs holding blades in place are eccentric with the round end of case. This is of advantage as when the gauge is opened the edge of case stands well away from the edge of blades. Each

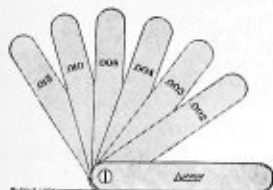
No. 272A—Has 16 Blades with Radii from 1/32 to 1/16 in.
Inclusive by 64ths. \$1.25
No. 272B—Has 16 Blades with Radii from 1/16 to 1/8 in.
Inclusive by 64ths. 1.80

THICKNESS GAUGES

LUFKIN

For Automotive Service

Useful in determining the clearance of tappets, fitting pistons and adjusting spark gap. It has the patent lock feature, one or more leaves can be locked by the same hand in which the tool is held.



- No. 06—6 Leaves, 3 in. Long, $\frac{1}{2}$ in. Wide, Ground to the Following Thicknesses: .002, .003, .004, .008, .010, .015, Weight Each $\frac{1}{2}$ Oz. \$0.90

One in a Box.

With Tapered Leaves

Particularly popular because they give access to narrow openings. They are equipped with the patent lock, which makes possible the clamping of one or more leaves in position for measuring.



- No. 109T—9 Leaves, 3 in. Long, Tapered to $\frac{1}{4}$ in., Thicknesses: .0015, .002, .003, .004, .006, .008, .010, .012 and .015, Length Extended 6 in., Weight Each 1 Oz. \$1.50

- No. 110T—10 Leaves, Same as No. 109T, with Addition of .0025 Leaf, Weight Each 1 Oz. 1.65

- No. 126T—26 Leaves, 3 in. Long, Tapered to $\frac{1}{4}$ in., Thicknesses: .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024 and .025, Weight Each 2 Oz. 3.50

One in a Box.

With Patent Lock

The special feature of this gauge is the wide range of sizes. All leaves are tempered steel, ground to exact thickness and clearly marked with its thickness.



- No. 126—With 26 Leaves, 3 in. Long, $\frac{1}{2}$ in. Wide, Thicknesses: .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, Over All Length of Gauge with Leaf Extended and Locked 6 in.; this Gauge Gives the Widest Range of Sizes, Weight Each 2 Oz. \$3.50

One in a Box.

With Patent Lock

Especially adapted for automobile mechanics use. The patent lock nut feature permits one or more leaves being locked and held firmly in position. This is an important feature in making adjustments on tappets on motors.

- Nine leaves, viz.: .0015, .002, .003, .004, .006, .008, .010, .012 and .015.



- No. 109—Case 3 in. Long by $\frac{1}{2}$ in. Wide, Leaves 2 $\frac{3}{4}$ in. Long by $\frac{1}{2}$ in. Wide, Weight Each 1 Oz. \$1.50

- No. 110—Same as No. 109, with the Addition of .0025 Leaf, Weight 1 Oz. 1.65

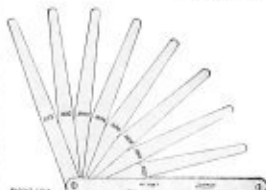
One in a Box.

THICKNESS GAUGES

LUFKIN EXTRA LONG

With Tapered Leaves

These gauges are particularly adapted for use in narrow and deep openings. They are equipped with the patent lock, which makes possible the clamping of one or more leaves in position for measuring.



- No. 208—8 Leaves, 4 $\frac{1}{2}$ in. Long, $\frac{1}{2}$ in. Wide at Base, Tapered to $\frac{1}{4}$ in., Thicknesses: .002, .003, .004, .006, .008, .010, .012, .015, Length of Gauge with Leaf Extended 9 in., Weight Each 1 $\frac{1}{2}$ Oz. \$2.50

- No. 308—8 Leaves, 6 in. Long, $\frac{1}{2}$ in. Wide at the Base, Tapered to $\frac{1}{4}$ in., Thicknesses: .002, .003, .004, .006, .008, .010, .012, .015, Length of Gauge with Leaf Extended 12 in., Weight Each 2 Oz. 3.00

One in a Box.

STARRETT

With Standard Range of Sizes

The leaves fold within the case which is 2 $\frac{3}{4}$ in. long, a convenient size to carry in the pocket.



- No. 72—22 Leaves Varying by Thousandths, Running from .004 to .005, the Thickness of Each Leaf is Designated by the Number Upon it, Weight Each 2 Oz. \$2.50

One in a Box.



For General Machinists and Tool Makers

- No. 172A—Case 3 $\frac{3}{8}$ in. Long x $\frac{1}{2}$ in. Wide, Leaves 3 $\frac{1}{8}$ in. Long x $\frac{1}{2}$ in. Wide. \$1.50
No. 172B—Case 4 $\frac{1}{4}$ in. Long x $\frac{1}{2}$ in. Wide, Leaves 4 $\frac{1}{2}$ in. Long x $\frac{1}{2}$ in. Wide. 2.50
No. 172C—Case 6 $\frac{1}{4}$ in. Long x $\frac{1}{2}$ in. Wide, Leaves 6 in. Long x $\frac{1}{2}$ in. Wide. 3.00

Size A has nine leaves, viz.: .0015, .002, .003, .004, .006, .008, .010, .012 and .015.

Sizes B and C have eight leaves the same as A with the omission of .0015.

One in a Box.

STARRETT EXTRA LONG

For Motor and Machine Construction Work

Used extensively by users of various devices for honing and regrinding engine cylinders to determine proper clearance when fitting pistons.



- No. 172D—8 Leaves, 9 in. Long, $\frac{1}{2}$ in. Wide, Thicknesses: .002, .003, .004, .005, .006, .008, .010, .015. \$3.25

THICKNESS GAUGES

BROWN & SHARPE

With 22 Blades

The thickness of each blade is designated by the number upon it. Each blade may be used singly or in combination with others and any thickness in thousandths within their limits may be quickly obtained.



No. 640—With 22 Blades, $2\frac{1}{2}$ in. Long, $\frac{1}{8}$ in. Wide, Varying in Thickness from .004 to .025 in. by Thousandths of an inch, Weight Each 2 Oz. . . . \$2.50

With 9 Blades

Each

No. 642—With Blades, $2\frac{1}{2}$ in. Long, $\frac{1}{8}$ in. Wide, Ground to the Following Thicknesses: .0015, .002, .003, .004, .006, .008, .010, .012 and .015, Weight Each $\frac{1}{2}$ Oz. . . \$1.50



With 9 Extra Long Blades

Each

No. 644—With Blades 3 in. Long and $\frac{1}{2}$ in. Wide, Otherwise Same as No. 242, Weight Each 2 Oz. . . \$1.50 One in a Box.

THICKNESS GAUGE STOCK

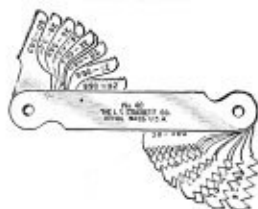
Gauge Number Stamped on Each Length

To meet the demand for thickness gauge stock only, in long pieces, we can supply any standard thickness in the following lengths:

| | | | |
|----------------|--------|-----|------|
| Length, Inches | 6 | 12 | 18 |
| Each | \$0.40 | .80 | 1.20 |

SCREW PITCH GAUGES

STARRETT



Polished Steel, V Threads

This gauge can be used inside a nut as well as on the outside of a screw or bolt.

Decimals are stamped on each blade to show the double depth of thread.

No. 40—22 Pitches, Threads Per Inch, 9, 10, 11, $11\frac{1}{2}$, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 40. . . . \$1.25 One in a Box.

Polished Steel, V Threads

Decimals are stamped on each leaf to show the double depth of thread. The teeth are sharp and clean cut. It can be used inside of a nut as well as on outside of a screw or bolt.



Each

No. 4—24 Pitches, Threads Per Inch, 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8, 9, 10, 11, $11\frac{1}{2}$, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30. . . . \$1.50

No. 5—26 Pitches, Threads Per Inch, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80. . . . 1.50

No. 6—30 Pitches, Threads Per Inch, 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8, 9, 10, 11, $11\frac{1}{2}$, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42. . . 1.75 One in a Box.

SCREW PITCH GAUGES

STARRETT

STARRETT POSITIVE STOP



Polished Steel, V Threads

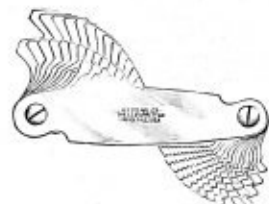
This gauge has a positive stop which holds the blade in a fixed and convenient position for use.

Each

No. 473—30 Pitches, Threads Per Inch, 6, 7, 8, 9, 10, 11, $11\frac{1}{2}$, 12, 13, 14, 15, 16, 18, 20, 22 in One End, and 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 48, 50, 56 and 60 in the Other End. . . . \$1.80

No. 475—26 Pitches, Threads Per Inch, $3\frac{1}{2}$, 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8, 9, 10, 11, $11\frac{1}{2}$, 12 in One End, and 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, and 32 in the Other End. . . . 1.50 One in a Box.

STARRETT U. S. STANDARD



With Tool Grinding Gauge

Each

No. 155—25 Pitches, Threads Per Inch, $2\frac{1}{4}$, $2\frac{3}{4}$, $2\frac{1}{2}$, $2\frac{3}{4}$, 3, $3\frac{1}{2}$, $3\frac{3}{4}$, 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20. . . . \$2.00 Also a center gauge with coarse and fine notch, One in a Box.

STARRETT WHITWORTH STANDARD



For Whitworth Standard Thread Only

Each

No. 7—26 Pitches, Threads Per Inch, 4, $4\frac{1}{2}$, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 40, 48, 60. . . . \$1.50 One in a Box.

BROWN & SHARPE

Triangular Frame

The triangular form of the frame of this Screw Pitch Gauge permits a compact housing of 51 blades for measuring threads of nuts as well as of screws.



Each

No. 633—51 Pitches, Threads Per Inch, 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8, 9, 10, 11, $11\frac{1}{2}$, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84. . . . \$2.75 One in a Box.

THREAD LIMIT GAUGES

G-T-D



A. S. M. E. Standard for Internal Threads

We call attention to the extra length of the "Go" gauge, which helps to distinguish it from the "Not Go."

Our gauges are made to the limits specified below. We will furnish double ended Style No. 1520, if specified, at same price of pair, Style Nos. 1550 and 1551. All sizes, pitches and threads not listed are special, and subject to special prices.

| Screw Gauge Nos. | Threads Per Inch | | Per Pair Style Nos. 1550 and 1551. | Pitch "Go" Gauge (basic p. d.) | Diam. "Not Go" Gauge | Style 1550 | | Style No. 1551 Lgth. 1.129 Thrd. |
|------------------|------------------|---------------|------------------------------------|--------------------------------|----------------------|-------------------|--------------------------|----------------------------------|
| | Fine Series | Coarse Series | | | | Lgth. Thrd. Inch. | Length, Over All, Inches | |
| 0 | 80 | ..... | \$14.00 | .0519 | .0538 | 1/4 | 1 5/8 | 1/4 |
| 1 | 72 | ..... | 14.00 | .0640 | .0660 | 1/4 | 1 1/2 | 1/4 |
| 1 | 64 | ..... | 14.00 | .0629 | .0651 | 1/4 | 1 1/4 | 1/4 |
| 2 | 64 | ..... | 14.00 | .0759 | .0781 | 1/4 | 1 1/4 | 1/4 |
| 2 | 56 | ..... | 14.00 | .0744 | .0767 | 1/4 | 1 1/4 | 1/4 |
| 3 | 56 | ..... | 13.00 | .0874 | .0897 | 1/4 | 1 1/4 | 1/4 |
| 3 | 48 | ..... | 13.00 | .0855 | .0880 | 1/4 | 1 1/4 | 1/4 |
| 4 | 48 | ..... | 13.00 | .0984 | .1010 | 3/8 | 1 1/4 | 1/4 |
| 4 | 40 | ..... | 13.00 | .0958 | .0986 | 3/8 | 1 1/4 | 1/4 |
| 5 | 44 | ..... | 12.00 | .1102 | .1129 | 3/8 | 1 1/4 | 1/4 |
| 5 | 40 | ..... | 12.00 | .1088 | .1116 | 3/8 | 1 1/4 | 1/4 |
| 6 | 40 | ..... | 12.00 | .1218 | .1246 | 3/8 | 1 1/4 | 1/4 |
| 6 | 32 | ..... | 12.00 | .1177 | .1208 | 3/8 | 1 1/4 | 1/4 |
| 8 | 36 | ..... | 12.00 | .1460 | .1489 | 3/8 | 2 1/4 | 1/4 |
| 8 | 32 | ..... | 12.00 | .1437 | .1468 | 3/8 | 2 1/4 | 1/4 |
| 10 | 32 | ..... | 12.00 | .1697 | .1728 | 3/8 | 2 1/4 | 1/4 |
| 10 | 24 | ..... | 12.00 | .1629 | .1664 | 3/8 | 2 1/4 | 1/4 |
| 12 | 28 | ..... | 12.00 | .1928 | .1961 | 1/2 | 2 1/4 | 1/4 |
| 12 | 24 | ..... | 12.00 | .1889 | .1924 | 1/2 | 2 1/4 | 1/4 |
| 14 | 24 | ..... | 12.00 | .2149 | .2184 | 1/2 | 2 1/4 | 1/4 |

Gauge No. 14 also furnished with 20 threads. Pitch diameter, Go .2095, Not Go .2132.

G-T-D



U. S. and S. A. E. Standard for Internal Threads

We call attention to the extra length of the "Go" gauge, which helps to distinguish it from the "Not Go."

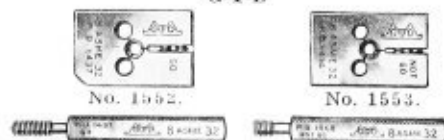
Our gauges are made to the limits specified below. We will furnish double ended Style No. 1520, if specified, at same price of pair, Style Nos. 1550 and 1551. All sizes, pitches and threads not listed are special, and subject to special prices.

| Size | Threads Per Inch | | Per Pair Style Nos. 1550 and 1551. | Pitch "Go" Gauge (basic p. d.) | Diam. "Not Go" Gauge | Style 1550 | | Style No. 1551 Lgth. 1.129 Thrd. |
|------|------------------|-------|------------------------------------|--------------------------------|----------------------|-------------------|--------------------------|----------------------------------|
| | USS. | SAE. | | | | Lgth. Thrd. Inch. | Length, Over All, Inches | |
| 1/4 | 20 | ..... | \$10.60 | .2175 | .2211 | 1/2 | 2 1/2 | 1/2 |
| 1/4 | 28 | ..... | 10.60 | .2268 | .2302 | 1/2 | 2 1/2 | 1/2 |
| 1/4 | 18 | ..... | 10.60 | .2764 | .2801 | 3/4 | 2 1/2 | 1/2 |
| 1/4 | 24 | ..... | 10.60 | .2854 | .2889 | 3/4 | 2 1/2 | 1/2 |
| 1/4 | 16 | ..... | 11.20 | .3344 | .3382 | 3/4 | 3 1/2 | 1/2 |
| 1/4 | 24 | ..... | 11.20 | .3479 | .3514 | 3/4 | 3 1/2 | 1/2 |
| 1/4 | 14 | ..... | 11.20 | .3911 | .3950 | 3/4 | 3 1/2 | 1/2 |
| 1/4 | 20 | ..... | 11.20 | .4050 | .4086 | 3/4 | 3 1/2 | 1/2 |
| 1/4 | 13 | ..... | 11.80 | .4500 | .4539 | 1 | 3 1/2 | 1/2 |
| 1/4 | 20 | ..... | 11.80 | .4675 | .4713 | 1 | 3 1/2 | 1/2 |
| 1/4 | 12 | ..... | 13.20 | .5084 | .5124 | 1 1/4 | 3 1/2 | 1/2 |
| 1/4 | 18 | ..... | 13.20 | .5264 | .5302 | 1 1/4 | 3 1/2 | 1/2 |
| 1/4 | 11 | ..... | 13.20 | .5660 | .5701 | 1 1/4 | 3 1/2 | 1/2 |
| 1/4 | 18 | ..... | 13.20 | .5889 | .5927 | 1 1/4 | 3 1/2 | 1/2 |
| 1/4 | 10 | ..... | 14.60 | .6850 | .6893 | 1 1/4 | 4 1/2 | 1/2 |
| 1/4 | 16 | ..... | 14.60 | .7094 | .7134 | 1 1/4 | 4 1/2 | 1/2 |
| 1/4 | 9 | ..... | 16.00 | .8028 | .8072 | 1 1/4 | 4 1/2 | 1/2 |
| 1/4 | 14 | ..... | 16.00 | .8286 | .8326 | 1 1/4 | 4 1/2 | 1/2 |
| 1/4 | 18 | ..... | 16.00 | .8389 | .8430 | 1 1/4 | 4 1/2 | 1/2 |
| 1/4 | 8 | ..... | 17.40 | .9188 | .9234 | 1 1/2 | 4 1/2 | 1/2 |
| 1/4 | 14 | ..... | 17.40 | .9536 | .9579 | 1 1/2 | 4 1/2 | 1/2 |

Note—The list price of a single "Go" or "Not Go" gauge is one-half the price per pair. Always give style number when ordering.

ADJUSTABLE THREAD LIMIT GAUGES

G-T-D



No. 1556 (Pair).

A. S. M. E. Standard for External Threads

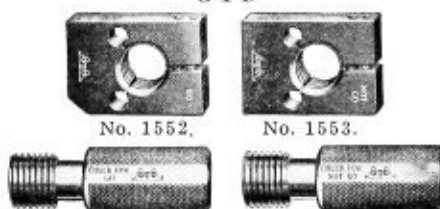
"Go" thread gauges have one corner flattened to help distinguish them from "Not Go" gauges.

Our gauges are made to the limits specified below. Gauges made to other than regular limits will be considered special. All sizes, pitches and threads not listed are special, and subject to special prices.

| Screw Gauge Nos. | Threads Per Inch | | Per Pr. Style No. 1552 and No. 1553 | Pitch "Go" Gauge (basic p. d.) | Diam. "Not Go" Gauge | Rec-angle Size, Inches | Thick-ness, Inches | Setting Plugs Style No. 1556 Per Pr. |
|------------------|------------------|---------------|-------------------------------------|--------------------------------|----------------------|------------------------|--------------------|--------------------------------------|
| | Fine Series | Coarse Series | | | | | | |
| 0 | 80 | ..... | \$14.00 | .0519 | .0505 | 1 1/2 x 3/4 | 1/4 | \$14.00 |
| 1 | 72 | ..... | 14.00 | .0640 | .0625 | 1 1/2 x 3/4 | 1/4 | 14.00 |
| 1 | 64 | ..... | 14.00 | .0629 | .0613 | 1 1/2 x 3/4 | 1/4 | 14.00 |
| 2 | 64 | ..... | 14.00 | .0759 | .0743 | 1 1/2 x 3/4 | 1/4 | 14.00 |
| 2 | 56 | ..... | 14.00 | .0744 | .0727 | 1 1/2 x 3/4 | 1/4 | 14.00 |
| 3 | 56 | ..... | 13.00 | .0874 | .0857 | 1 1/2 x 3/4 | 1/4 | 13.00 |
| 3 | 48 | ..... | 13.00 | .0855 | .0836 | 1 1/2 x 3/4 | 1/4 | 13.00 |
| 4 | 48 | ..... | 13.00 | .0985 | .0966 | 1 1/2 x 3/4 | 1/4 | 13.00 |
| 4 | 40 | ..... | 12.00 | .1102 | .1082 | 1 1/2 x 3/4 | 1/4 | 12.00 |
| 5 | 44 | ..... | 12.00 | .1088 | .1067 | 1 1/2 x 3/4 | 1/4 | 12.00 |
| 5 | 40 | ..... | 12.00 | .1218 | .1197 | 1 1/2 x 3/4 | 1/4 | 12.00 |
| 6 | 40 | ..... | 12.00 | .1177 | .1154 | 1 1/2 x 3/4 | 1/4 | 12.00 |
| 8 | 36 | ..... | 12.00 | .1460 | .1438 | 1 1/2 x 3/4 | 1/4 | 12.00 |
| 8 | 32 | ..... | 12.00 | .1437 | .1414 | 1 1/2 x 3/4 | 1/4 | 12.00 |
| 10 | 32 | ..... | 12.00 | .1697 | .1674 | 1 1/2 x 3/4 | 1/4 | 12.00 |
| 10 | 24 | ..... | 12.00 | .1629 | .1603 | 1 1/2 x 3/4 | 1/4 | 12.00 |
| 12 | 28 | ..... | 12.00 | .1928 | .1904 | 1 1/2 x 1 | 3/8 | 12.00 |
| 12 | 24 | ..... | 12.00 | .1889 | .1863 | 1 1/2 x 1 | 3/8 | 12.00 |
| 14 | 24 | ..... | 12.00 | .2149 | .2123 | 1 1/2 x 1 | 3/8 | 12.00 |

Gauge No. 14 also furnished with 20 threads. Pitch diameter, Go .2095, Not Go .2132.

G-T-D



No. 1556 (Pair)

U. S. and S. A. E. Standard for External Threads

| Size | Threads Per Inch | | Per Pr. "Go" & "Not Go" Ring Gauges | Pitch "Go" Gauge (basic p. d.) | Diam. "Not Go" Gauge | Rec-angle Size, Inches | Thick-ness, Inches | Setting Plugs Style No. 1556 Per Pr. |
|------|------------------|-------|-------------------------------------|--------------------------------|----------------------|------------------------|--------------------|--------------------------------------|
| | USS. | SAE. | | | | | | |
| 1/4 | 20 | ..... | \$10.60 | .2175 | .2155 | 1 x 1 1/2 | 3/8 | \$10.60 |
| 1/4 | 28 | ..... | 10.60 | .2268 | .2248 | 1 x 1 1/2 | 3/8 | 10.60 |
| 1/4 | 18 | ..... | 10.60 | .2764 | .2743 | 1 x 1 1/2 | 3/8 | 10.60 |
| 1/4 | 24 | ..... | 10.60 | .2854 | .2834 | 1 x 1 1/2 | 3/8 | 10.60 |
| 1/4 | 16 | ..... | 11.20 | .3344 | .3323 | 1 x 1 1/2 | 3/8 | 11.20 |
| 1/4 | 24 | ..... | 11.20 | .3479 | .3459 | 1 x 1 1/2 | 3/8 | 11.20 |
| 1/4 | 14 | ..... | 11.20 | .3911 | .3889 | 1 1/4 x 1 1/2 | 3/8 | 11.20 |
| 1/4 | 20 | ..... | 11.20 | .4050 | .4029 | 1 1/4 x 1 1/2 | 3/8 | 11.20 |
| 1/4 | 13 | ..... | 11.80 | .4500 | .4478 | 1 1/4 x 1 1/2 | 3/8 | 11.80 |
| 1/4 | 20 | ..... | 11.80 | .4675 | .4654 | 1 1/4 x 1 1/2 | 3/8 | 11.80 |
| 1/4 | 12 | ..... | 13.20 | .5084 | .5062 | 1 1/4 x 1 1/2 | 3/8 | 13.20 |
| 1/4 | 18 | ..... | 13.20 | .5264 | .5243 | 1 1/4 x 1 1/2 | 3/8 | 13.20 |
| 1/4 | 11 | ..... | 13.20 | .5660 | .5637 | 1 1/4 x 1 1/2 | 3/8 | 13.20 |
| 1/4 | 18 | ..... | 13.20 | .5889 | .5868 | 1 1/4 x 1 1/2 | 3/8 | 13.20 |
| 1/4 | 10 | ..... | 14.60 | .6850 | .6827 | 1 1/4 x 2 1/4 | 1/2 | 14.60 |
| 1/4 | 16 | ..... | 14.60 | .7094 | .7072 | 1 1/4 x 2 1/4 | 1/2 | 14.60 |
| 1/4 | 9 | ..... | 16.00 | .8028 | .8004 | 1 1/4 x 2 1/4 | 1/2 | 16.00 |
| 1/4 | 14 | ..... | 16.00 | .8286 | .8262 | 1 1/4 x 2 1/4 | 1/2 | 16.00 |
| 1/4 | 18 | ..... | 16.00 | .8389 | .8366 | 1 1/4 x 2 1/4 | 1/2 | 16.00 |
| 1/4 | 8 | ..... | 17.40 | .9188 | .9163 | 1 1/4 x 2 1/4 | 1/2 | 17.40 |
| 1/4 | 14 | ..... | 17.40 | .9536 | .9512 | 1 1/4 x 2 1/4 | 1/2 | 17.40 |

PLUG AND RING THREAD GAUGES

G-T-D



No. 1503.

No. 1502.

Basic A. S. M. E. Machine Screw Threads

All sizes, pitches, and threads not listed are special. Left hand and multiple threads are special.

| Screw Gauge, Nos. | No. of Threads Per Inch. | | Per Pair | Plug Style No. 1502. | | Ring Style No. 1503. | |
|-------------------|--------------------------|--------------------|----------|----------------------|-----------------------|----------------------|--------------------|
| | ASME Std. Fine Series | Also Coarse Series | | Each | Lgth. Over All, Inch. | Each | Size of Rect-angle |
| 0 | 80 | ..... | \$14.00 | \$7.00 | 1 1/8 | \$7.00 | 1 1/8 x 3/4 |
| 1 | 72 | 64 | 14.00 | 7.00 | 1 1/8 | 7.00 | 1 1/8 x 3/4 |
| 2 | 64 | 56 | 14.00 | 7.00 | 1 1/8 | 7.00 | 1 1/8 x 3/4 |
| 3 | 56 | 48 | 13.00 | 6.50 | 1 1/8 | 6.50 | 1 1/8 x 3/4 |
| 4 | 48 | 40 | 13.00 | 6.50 | 1 1/8 | 6.50 | 1 1/8 x 3/4 |
| 5 | 44 | 40 | 12.00 | 6.00 | 1 1/8 | 6.00 | 1 1/8 x 3/4 |
| 6 | 40 | 32 | 12.00 | 6.00 | 1 1/8 | 6.00 | 1 1/8 x 3/4 |
| 7 | 36 | 32 | 12.00 | 6.00 | 1 1/8 | 6.00 | 1 1/8 x 3/4 |
| 8 | 32 | 30 | 12.00 | 6.00 | 1 1/8 | 6.00 | 1 1/8 x 3/4 |
| 9 | 32 | 30 | 12.00 | 6.00 | 1 1/8 | 6.00 | 1 1/8 x 3/4 |
| 10 | 32 | 24 | 12.00 | 6.00 | 1 1/8 | 6.00 | 1 1/8 x 3/4 |
| 12 | 28 | 24 | 12.00 | 6.00 | 1 1/8 | 6.00 | 1 1/8 x 3/4 |
| 14 | 24 | 20 | 12.00 | 6.00 | 1 1/8 | 6.00 | 1 1/8 x 3/4 |
| 16 | 20 | 20 | ..... | ..... | ..... | ..... | ..... |
| 18 | 18 | 18 | ..... | ..... | ..... | ..... | ..... |
| 20 | 16 | 16 | ..... | ..... | ..... | ..... | ..... |
| 22 | 16 | 16 | ..... | ..... | ..... | ..... | ..... |
| 24 | 14 | 14 | ..... | ..... | ..... | ..... | ..... |
| 26 | 14 | 14 | ..... | ..... | ..... | ..... | ..... |
| 28 | 12 | 12 | ..... | ..... | ..... | ..... | ..... |
| 30 | 12 | 12 | ..... | ..... | ..... | ..... | ..... |

*Omitted from list of standard sizes recommended by A. S. M. E. and National Screw Thread Commission.

PIPE THREAD GAUGES

G-T-D



No. 1561.

No. 1560

No. 1562.

American (Briggs) Standard

| Size | No. Threads Per Inch | Taper Threads | | | Straight Threads | |
|-------|----------------------|------------------------|---------------------------|----------------------------------|---------------------|-----------------------------|
| | | Plug and Ring, Per Set | Plug Style No. 1560, Each | Ring Style No. 1561 or 1562, Ea. | Plug Style No. 1502 | Ring Style No. 1503 or 1504 |
| 1/8 | 27 | \$15.00 | \$ 7.50 | \$ 7.50 | ..... | ..... |
| 3/8 | 18 | 17.00 | 8.50 | 8.50 | ..... | ..... |
| 1/2 | 14 | 20.00 | 10.00 | 10.00 | ..... | ..... |
| 3/4 | 12 | 23.00 | 11.50 | 11.50 | ..... | ..... |
| 1 | 11 1/2 | 26.00 | 13.00 | 13.00 | ..... | ..... |
| 1 1/4 | 11 1/2 | 29.00 | 14.50 | 14.50 | ..... | ..... |
| 1 1/2 | 11 1/2 | 32.00 | 16.00 | 16.00 | ..... | ..... |
| 2 | 11 1/2 | 36.00 | 18.00 | 18.00 | ..... | ..... |
| 2 1/2 | 8 | 42.00 | 21.00 | 21.00 | ..... | ..... |
| 3 | 8 | 50.00 | 25.00 | 25.00 | ..... | ..... |
| 3 1/2 | 8 | 60.00 | 30.00 | 30.00 | ..... | ..... |
| 4 | 8 | 70.00 | 35.00 | 35.00 | ..... | ..... |
| 4 1/2 | 8 | 80.00 | 40.00 | 40.00 | ..... | ..... |
| 5 | 8 | 90.00 | 45.00 | 45.00 | ..... | ..... |
| 5 1/2 | 8 | 100.00 | 50.00 | 50.00 | ..... | ..... |
| 6 | 8 | 120.00 | 60.00 | 60.00 | ..... | ..... |

We can furnish "master" and "reference" pipe thread gauges. Prices and deliveries on application.

LIMIT SCREW PITCH GAUGES

G-T-D



These gauges are made so that the same gauge is suitable for inspecting both U. S. form and V form of thread. Other gauges are necessary for inspecting Whitworth form of thread. Limit

Pitch Gauges for American (Briggs) Standard Taper Pipe Threads are also furnished.

- Each
No. 1581A—3 to 13 Pitch Inclusive, 4 in. Long (U. S. S. or Whitworth Form of Thread).....\$4.00
No. 1581B—14 to 80 Pitch Inclusive, 2 in. Long, (U. S. S. or Whitworth Form of Thread)..... 4.00
No. 1581C—3 to 27 Pitch Inclusive, 4 in. Long (American (Briggs) Standard Taper Pipe)..... 6.00

The following pitches are regularly furnished: 3, 3 1/2, 4, 4 1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 28, 30, 32, 36, 40, 44, 48, 50, 56, 64, 72, 80, and in taper pipe threads 8, 11 1/2, 14, 18, 27.

G-T-D IN SETS



We furnish limit screw pitch gauges for U. S. and Whitworth form of thread in sets, each set in a hardwood box as listed below.

Per Set
No. 1585—Set of 8 Gauges.....\$32.00

No. 1586—Set of 12 Gauges..... 48.00

No. 1587—Set of 24 Gauges..... 96.00

Suggested pitches for set No. 1587: 4, 4 1/2, 5, 5 1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 24, 28, 30, 32, 36, 44, 48, 56.



No. 1504.

No. 1502.

No. 1503.

Basic U. S. and S. A. E. Standard Threads

Ring Gauges, Style No. 1504, smaller than 1 in. furnished at regular prices.

Sizes of plugs and rings up to 1 1/2 in. S. A. E. Standard and 2 in. U. S. S. are regularly carried in stock for immediate shipment.

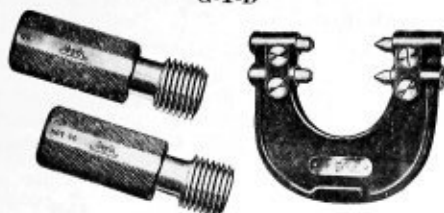
All sizes, pitches and threads not listed are special and subject to special prices. Left hand and multiple threads are special.

| Size | Threads Per Inch. | | Plug, Style No. 1502 | | Ring Style, Nos. 1503-04 | | Thick-ness, Inches |
|-------|-------------------|--------|----------------------|-----------------------|--------------------------|--|--------------------|
| | USS. | SAE. | Each | Lgth. Over All, Inch. | Each | Size of Rect-angle or O. Diam. Ring, In. | |
| 1/4 | 20 | 28 | \$5.30 | 2 1/8 | \$5.30 | 1 x 1 1/2 | 7/8 |
| 3/8 | 18 | 24 | 5.30 | 2 3/8 | 5.30 | 1 x 1 1/2 | 7/8 |
| 1/2 | 16 | 24 | 5.60 | 3 1/8 | 5.60 | 1 x 1 1/2 | 7/8 |
| 3/4 | 14 | 20 | 5.60 | 3 1/8 | 5.60 | 1 1/4 x 1 1/2 | 7/8 |
| 1 | 12 | 20 | 5.90 | 2 1/2 | 5.90 | 1 1/4 x 1 1/2 | 7/8 |
| 1 1/4 | 12 | 18 | 6.60 | 3 1/8 | 6.60 | 1 1/4 x 1 1/2 | 7/8 |
| 1 1/2 | 11 | 18 | 6.60 | 3 1/8 | 6.60 | 1 1/4 x 1 1/2 | 7/8 |
| 1 3/4 | 11 | 16 | 7.30 | 3 1/8 | 7.30 | 1 1/2 x 2 1/2 | 1 1/8 |
| 2 | 10 | 16 | 7.30 | 4 1/8 | 7.30 | 1 1/2 x 2 1/2 | 1 1/8 |
| 2 1/4 | 9 | 14, 18 | 8.00 | 4 1/8 | 8.00 | 1 1/2 x 2 1/2 | 1 1/8 |
| 2 1/2 | 9 | 14 | 8.70 | 4 1/8 | 8.70 | 1 1/2 x 2 1/2 | 1 1/8 |
| 2 3/4 | 8 | 12 | 9.50 | 4 1/8 | 9.50 | 1 1/2 x 2 1/2 | 1 1/8 |
| 3 | 8 | 12 | 10.20 | 4 1/8 | 10.20 | 1 1/2 x 2 1/2 | 1 1/8 |
| 3 1/4 | 6 | 12 | 11.00 | 4 1/8 | 11.00 | 1 1/2 x 2 1/2 | 1 1/8 |
| 3 1/2 | 6 | 12 | 11.50 | 4 1/8 | 11.50 | 1 1/2 x 2 1/2 | 1 1/8 |
| 3 3/4 | 5 1/2 | 12 | 12.20 | 5 1/8 | 12.20 | 1 1/2 x 2 1/2 | 1 1/8 |
| 4 | 5 | 12 | 12.90 | 5 1/8 | 12.90 | 1 1/2 x 2 1/2 | 1 1/8 |
| 4 1/4 | 5 | 12 | 13.70 | 5 1/8 | 13.70 | 1 1/2 x 2 1/2 | 1 1/8 |
| 4 1/2 | 4 1/2 | 12 | 14.65 | 5 1/8 | 14.65 | 1 1/2 x 2 1/2 | 1 1/8 |

Note—Length of plugs and thickness of rings given above are for gauges with U. S. S. threads. S. A. E. Std. thread gauges are respectively shorter and thinner.

THREAD LIMIT SNAP GAUGES

G-T-D



No. 1556

No. 1621

With Anvils and Setting Plugs for U. S. Form of Thread

| Thread Limit Snap Gauges, Style No. 1621 | | Setting Plugs, Style No. 1556, For Thread Limit Snap Gauges. | | | |
|--|-----------------|--|--------------------------|----------|----------|
| Frame Nos. | Gage Only, Each | Size | No. of Threads Per Inch. | | Per Pair |
| | | | U.S. | SAE. | |
| 1 | \$ 8.00 | $\frac{1}{4}$ | 20 | 28 | \$10.60 |
| 2 | 9.00 | $\frac{3}{8}$ | 18 | 24 | 10.60 |
| 3 | 10.00 | $\frac{1}{2}$ | 16 | 24 | 11.20 |
| 4 | 11.00 | $\frac{5}{8}$ | 14 | 20 | 11.20 |
| 5 | 12.00 | $\frac{3}{4}$ | 13 | 20 | 11.80 |
| 6 | 12.50 | $\frac{7}{8}$ | 12 | 18 | 13.20 |
| 7 | 13.00 | $\frac{1}{2}$ | 11 | 18 | 13.20 |
| 8 | 13.50 | $\frac{3}{4}$ | * | * | * |
| 9 | 14.00 | $\frac{1}{2}$ | 10 | 16 | 14.60 |
| 10 | 15.00 | $\frac{3}{4}$ | * | * | * |
| 11 | 16.00 | $\frac{1}{2}$ | 9 | 14 or 18 | 16.00 |
| 12 | 17.00 | $\frac{3}{4}$ | * | * | * |
| 13 | 18.00 | 1 | 8 | 14 | 17.40 |
| 14 | 19.50 | | | | |

For sizes requiring large anvils, add \$2.00 to price of gage.

*Prices on application. Sizes larger than 1 in., price on application.

PLAIN LIMIT GAUGES

G-T-D



No. 1513

No. 1612

No. 1545, Pair

Style Nos. 1612, Snap Gauge; 1513, Setting Plug for sizes under $\frac{1}{4}$ in.; 1514, Setting Plug for sizes $\frac{1}{4}$ to 2 in. inclusive; 1545, Setting Plugs for sizes over 2 in.

In ordering specify "Go" and "Not Go" sizes actually to be gauged, and give number of frame required.

The adjustment of anvils is such that ranges given for each frame can be exceeded by approximately + and - $\frac{1}{32}$ inch.

| Frame Nos. | Range in Inches | Gage Only, Style No. 1612 | Setting Plugs for Maximum & Minimum Size |
|------------|---------------------------------|---------------------------|--|
| 1 | 0 - $\frac{1}{2}$ | \$ 7.25 | \$ 8.00 |
| 2 | $\frac{1}{2}$ - 1 | 7.75 | 9.20 |
| 3 | 1 - $1\frac{1}{2}$ | 8.25 | 9.60 |
| 4 | $1\frac{1}{2}$ - 2 | 8.75 | 10.00 |
| 5 | 2 - $2\frac{1}{2}$ | 9.25 | 10.20 |
| 6 | $2\frac{1}{2}$ - 3 | 9.75 | 10.40 |
| 7 | 3 - $3\frac{1}{2}$ | 10.25 | 10.60 |
| 8 | $3\frac{1}{2}$ - $4\frac{1}{4}$ | 10.75 | 11.00 |
| 9 | $4\frac{1}{2}$ - 5 | 11.25 | 11.20 |
| 10 | 5 - 6 | 11.75 | 11.60 |
| 11 | 6 - 7 | 12.50 | 12.00 |
| 12 | 7 - $8\frac{1}{2}$ | 13.50 | 12.60 |
| 13 | $8\frac{1}{2}$ - 10 | 14.50 | 13.20 |
| 14 | 10 - 12 | 16.00 | 13.40 |

TABLE FOR ORDERING THREAD LIMIT SNAP GAUGES

Style No. 1621.

The following table is for use in ordering gauges. By it the purchaser can determine the correct size of frame for a given pitch and diameter.

Special sizes more than .015 in. larger than tabulated require the next larger frame.

Sizes marked (*) are regularly carried in stock.

| Pitch | Frame Number and Capacity, Inches | | | | | | | Pitch | Frame Number and Capacity, Inches | | | | | | |
|-----------------|-----------------------------------|--------------------------------|--------------------------------|----------------|----------------|----------------|----------------|-----------------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 36 | $\frac{1}{8}$ to $\frac{3}{16}$ | | | | | | | 32 | $\frac{3}{8}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | | | |
| 32 | $\frac{1}{8}$ to $\frac{3}{16}$ | $\frac{3}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | 2 | $2\frac{1}{2}$ | 3 | 28 | $\frac{3}{8}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | | | |
| 28 | $\frac{1}{8}$ to $\frac{3}{16}$ | $\frac{3}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | 2 | $2\frac{1}{2}$ | 3 | 27 | $\frac{3}{8}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | | | |
| 27 | $\frac{1}{8}$ to $\frac{3}{16}$ | $\frac{3}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | 2 | $2\frac{1}{2}$ | 3 | 24 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | 8 | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 24 | $\frac{1}{8}$ to $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 20 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | 8 | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 20 | $\frac{1}{8}$ to $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 18 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | 8 | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 18 | $\frac{1}{8}$ to $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 16 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | 8 | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 16 | $\frac{1}{8}$ to $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 14 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | 8 | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 14 | $\frac{1}{8}$ to $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 13 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 13 | | $\frac{3}{8}$ to $\frac{7}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 12 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 12 | | $\frac{3}{8}$ to $\frac{7}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 11 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 11 | | $\frac{3}{8}$ to $\frac{7}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 10 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 10 | | $\frac{3}{8}$ to $\frac{7}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 9 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 9 | | $\frac{3}{8}$ to $\frac{7}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 8 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 8 | | $\frac{3}{8}$ to $\frac{7}{8}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 7 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 7 | | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 6 | $\frac{3}{16}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 6 | | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | $3\frac{1}{2}$ | 5 $\frac{1}{2}$ | 4 | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 5 $\frac{1}{2}$ | | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | 3 | 5 | 4 | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 5 | | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $2\frac{1}{2}$ | $2\frac{1}{2}$ | 3 | 4 $\frac{1}{2}$ | 4 | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | $8\frac{1}{2}$ | $9\frac{1}{2}$ | $11\frac{1}{2}$ |
| 4 $\frac{1}{2}$ | | | $\frac{3}{4}$ - $1\frac{1}{8}$ | | 2 | $2\frac{1}{2}$ | 3 | 4 | $\frac{3}{4}$ | $\frac{4}{16}$ | $\frac{5}{16}$ | $\frac{6}{16}$ | 8 | 9 | 11 |
| 4 | | | | | 2 | $2\frac{1}{2}$ | 3 | | | | | | | | |

Note—Sizes enclosed in heavy lines require large anvils.

DEPTH GAUGES

LUFKIN

With Narrow Tempered Steel Rule

Steel heads case hardened and finished, $2\frac{1}{2}$ in. wide across the base, $\frac{1}{8}$ in. thick. Heads are notched on one side, so graduations can be easily read. Blades are tempered, machine divided, and fitted in slot of the head. They can be securely clamped at any point by means of the knurled lock nut. Blades are also removable for use simply as scales.

No. 510—With 6 in. Narrow Spring Tempered Steel Rule Graduated 32nds and 64ths inch. \$1.50
One in a Box.



LUFKIN COMBINATION

Depth Gauge and Protractor

Heads are case hardened steel and nicely finished, $2\frac{1}{2}$ in. wide across base and $\frac{1}{8}$ in. thick. The heads are notched on one side so graduations can be easily read. All blades are tempered and machine divided and fitted in slot in head. They may be securely clamped at any point by means of the knurled lock nut. One side of head is marked with 30, 45 and 60 degree lines to which the blade can be swung and set converting the tool into a protractor.

Each

No. 511—With 6 in. Narrow Spring Tempered Rule, Graduated 32nds and 64ths inch. \$2.00

No. H511—With 6 in. Narrow Hook Rule, Otherwise Same as No. 511. 2.50
One in a Box.



LUFKIN IMPROVED

With Round Graduated Blade

The distinctive feature of this gauge is that the blade, while round is graduated. It is but $\frac{1}{16}$ in. in diameter and gives access to small holes. The base is $2\frac{1}{2}$ in. wide. Measurement is arrived at without the additional use of a rule.

Each

No. 512—With 6 in. Rule Graduated 4 inches in 32nds of an inch. . . . \$1.50
One in a Box.



STARRETT

With 6 in. Blades

Case Hardened Steel Base, Nickel Finished.

The blade which is conveniently held in the groove of the head by a knurled lock nut, is a 6 in. narrow spring-tempered rule, and can be used separately from the gauge. Blades graduated in 32nds and 64ths of an inch will be sent unless otherwise ordered, but we can also supply them graduated in 50ths and 100ths, or 64ths and 100ths.

Each

No. 237—Base 2 in. Wide, $\frac{1}{8}$ in. Thick. . . \$1.50
One in a Box.



STARRETT

With Narrow Tempered Steel Rule

Has a graduated scale indicating exact measurements, and may be used separately from the gauge.

Rule graduated in 32nds and 64ths of inches; furnished with 64ths and 100ths if so ordered.



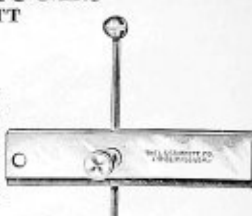
| Nos. | 46A | 46B | 46C | 46D | 46E |
|-----------------------|-----------------|-----------------|------|------|------|
| Length Stock, Inches. | 3 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 6 | 6 | 10 |
| Length Scale, Inches. | 4 | 6 | 4 | 6 | 6 |
| Each | \$1.50 | 1.80 | 1.80 | 2.10 | 2.70 |
| One in a Box. | | | | | |

DEPTH GAUGES

STARRETT

With Rod

The wire is held to a groove by a friction spring inside the nut while adjusting, and may be used close up to the end, as well as in the middle of the straight edge. By loosening the nut, the gauge may be neatly folded.



| Nos. | 45A | 45B | 45C |
|-----------------------|-----------------|------|------|
| Length Stock, Inches. | 3 $\frac{1}{2}$ | 6 | 10 |
| Length Rod, Inches. | 3 $\frac{1}{2}$ | 6 | 6 |
| Each | \$0.90 | 1.40 | 1.65 |
| One in a Box. | | | |



STARRETT MICROMETER

With Single Rod

It has $\frac{1}{2}$ in. movement of the screw, reading in thousandths, and with two $\frac{1}{2}$ in. and one 1 in. standard collars to slip off or on the spindle, $2\frac{1}{2}$ in., reading in thousandths, can be obtained. The split nut is covered and protected by a patent graduated sleeve, which protects the nut from dirt and provides an accurate way of taking up wear and adjusting the micrometer to insure correct reading.

| Nos. | 446A | 446B |
|--------------------|-----------------|------|
| Size Base, Inches. | 2 $\frac{1}{4}$ | 4 |
| Each | \$7.75 | 8.50 |
| Case—Extra | 1.25 | 2.00 |

Sent with Case unless otherwise ordered.

BROWN & SHARPE MICROMETER

Range 0 to 2 $\frac{1}{2}$ inches, by Thousandths

Screw has $\frac{1}{2}$ in. movement. Adjusting rod is graduated each $\frac{1}{2}$ in. and the deep graduations that the clamping fingers at end of gauge spring in and allow the $\frac{1}{2}$ in. adjustment of the rod to be quickly and positively made.

| Nos. | 605A | 605B |
|-----------------------|--------|------|
| Size of Base, Inches. | 2 | 4 |
| Each | \$8.75 | 9.50 |
| Case—Extra | 1.25 | 2.00 |

Sent with Case unless otherwise ordered.



BROWN & SHARPE RATCHET MICROMETER

Range 0 to 3 inches by Thousandths

Micrometer screw has a movement of 1 in. The range is obtained by three measuring rods furnished. The rod desired is inserted in the gauge through a hole in the micrometer screw. The rods measure 0 to 1, 1 to 2 and 2 to 3 in.

| Nos. | 607A | 607B |
|--------------------|--------|-------|
| Size Base, Inches. | 2 | 4 |
| Each | \$9.50 | 12.00 |
| Case—Extra | 1.80 | 2.20 |

Sent with Case unless otherwise ordered.



LUFKIN MICROMETER

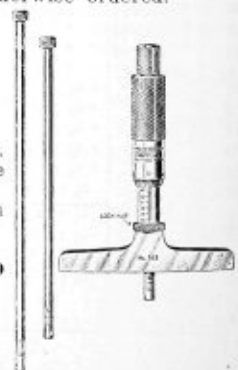
With Three Measuring Rods

Has 1 in. movement of the screw. A lock-nut allows the gauge to be set and held at any reading.

Each

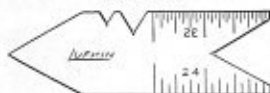
No. 513—3 in. Base, Range 0 to 3 in. by Thousandths of an inch. \$9.00

One in a Box.



CENTER GAUGES

LUFKIN



For Use in Grinding and Setting Screw Cutting Tools
Graduated in 14ths, 20ths, 24ths and 32nds for Measuring Threads Per Inch.

A valuable feature of this gauge is that it carries a table of double depth figures, used in determining the tap drill sizes of sharp 60° V Threads. Allowance is to be made for the extent to which thread is flattened, as it is not practical to tap a perfectly sharp thread.

- Each
No. 36—U. S. Standard, 60°, Spring Tempered...\$0.50
No. 036—U. S. Standard, 60°, Not Tempered... .40
No. 37—Whitworth Standard, 55°, Tempered... .50
No. 037—Whitworth Standard, 55°, Not Tempered... .40

Six in a Box.

STARRETT



For Use in Grinding and Setting Screw Cutting Tools
Graduated in 14ths, 20ths, 24ths and 32nds for Measuring Threads Per Inch, Except Nos. 397 and 398 which are m/m.

- Each
No. 390—U. S. Standard, 60°, Not Tempered...\$0.40
No. 391—U. S. Standard, 60°, Spring Tempered... .50
No. 395—Whitworth Standard, 55°, Not Tempered... .40
No. 396—Whitworth Standard, 55°, Spring Tempered... .50

Six in a Box.

BROWN & SHARPE



For Use in Grinding and Setting Screw Cutting Tools
Graduated in 14ths, 20ths, 24ths and 32nds for Measuring Threads Per Inch.

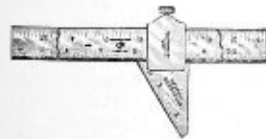
- Each
No. 650—U. S. Standard, Tempered...\$0.50
No. 0650—U. S. Standard, Not Tempered... .40
No. 651—Whitworth or English Standard 55°, Tempered... .50
No. 0651—Whitworth or English Standard 55°, Not Tempered... .40

Twelve in a Box.

DRILL POINT GAUGES

STARRETT

Adjustable



Arm Sets at 59° Angle which is Considered the Proper Angle for Grinding Twist Drills to get Best Results.

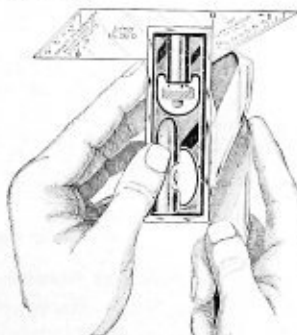
Blade Graduated 32nds and 64ths on One Side and 8ths and 16ths on the Other Side. Each

- No. 22A—12 in. Blade, Weight Each $\frac{3}{4}$ Lb...\$4.90
One in a Box.

LUFKIN

Double Square Stock, with Level

Bevel Blade at one end is 59° the cutting angle of drill, the other end 41° the cutting angle of countersinks for machine screws. Blade is slotted and slides readily in the head and is held securely with thumb screw when set. Blades are graduated in 64ths inches.



Each

- No. 26D—Complete, Weight Each 1 Oz...\$2.50
No. 26E—Blade Only... 1.25
One in a Box.

SCREW THREAD GAUGES

BROWN & SHARPE

Acme Standard

Each



No. 715 Gauge.



Tool Setting Gauge.

Acme Standard

Each

- No. 716—29 Degrees, this Gauge
Furnishes a Correct Standard to which Tools can be Ground to Cut Threads of a Uniform Angle, to Take the Place of Square Threads...\$3.00
Twelve in a Box.

U. S. Standard

Each



- No. 724—Used as a Standard for Grinding Tools to Cut Threads According to U. S. Standard, the Angles are 60° and the Flat Surfaces at Top and Bottom of Threads are Equal to One-Eighth of the Pitch...\$3.00
Six in a Box.

WORM THREAD TOOL GAUGES

BROWN & SHARPE

This Gauge furnishes the correct form for tools used in turning the threads of worms, when the worm wheels are cut with involute cutters. The figures on the gauge correspond to the number of threads per inch of the worm.

- Each
No. 720...\$3.00
Tool Setting Gauge—Extra... .30
Six in a Box.



DEPTH OF GEAR TOOTH GAUGES

BROWN & SHARPE



Depth of Gear Tooth Gauges for all regular pitches, from 3 to 48 pitch inclusive, are carried in stock. One gauge answers

- for each pitch and indicates the extreme depth to be cut.
Each
No. 725—Specify Pitches Wanted...\$0.75
One in a Package.

SHEET METAL GAUGES

BROWN & SHARPE

United States Standard

Adopted by Congress, March 3, 1893.



- This is the legalized gauge for determining duties and taxes levied by the United States and is the recognized commercial Standard for all uncoated sheet and plate iron and steel. It is a weight gauge having been used on weights in ounces per square foot. Decimal Equivalents are stamped on the reverse side.
Each
No. 694—0 to 36 Gauge...\$3.00
Six in a Box.

WIRE GAUGES

BROWN & SHARPE

American Standard

Best tempered steel.

Adopted by the Brass Manufacturers, Jan., 1858.

Decimal Equivalents stamped on reverse side.

This gauge is also known as Brown & Sharpe Standard.



| | |
|-----------------------------|-------------|
| No. 688A—0 to 36 Gauge..... | Each \$3.00 |
| No. 688B—5 to 36 Gauge..... | 2.50 |
| Six in a Box. | |

English Standard

Best tempered steel. Same as Stubbs' Iron Wire or Birmingham gauge. Decimal Equivalents of each size are stamped on reverse side. Each gauge carefully tested after hardening.



| | |
|-----------------------------|-------------|
| No. 690A—1 to 36 Gauge..... | Each \$3.00 |
| No. 690B—6 to 36 Gauge..... | 2.50 |
| Six in a Box. | |

Washburn and Moen Standard

Best tempered steel. Each gauge carefully tested after hardening. The gauge numbers are those of the Washburn and Moen Standard used in certain sections for measuring spring steel, fence and telegraph wire, etc.



| | |
|---|-------------|
| No. 692—Numbers 0 to 36, About 3 1/4 in. Diameter, 1/4 in. Thick, Weight Each 4 Oz..... | Each \$3.00 |
| Six in a Box. | |

BROWN & SHARPE MUSIC WIRE

American S. & W. Co. Standard

Best tempered steel. Each gauge carefully tested after hardening. Decimal Equivalent of each number stamped on reverse side.

This gauge carries all sizes for measuring and checking steel music or piano wire.

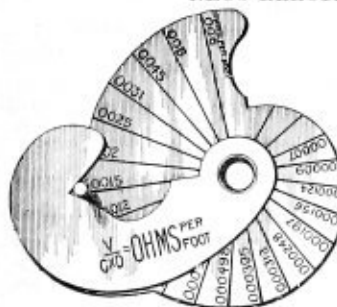


| | |
|--|-------------|
| No. 696—Numbers 6/0 to 33, About 2 in. Diameter, 3/4 in. Thick, Weight 2 Oz..... | Each \$3.00 |
| Six in a Box. | |

NECO ELECTRICIANS

White Metal, Finely Finished

Measures B. & S. gauge wire No. 18 to No. 3/0. On front side is also given the carrying capacity of copper wire in amperes and on reverse side the approximate decimal equivalents of various size wires.



| | |
|------------------------|-------------|
| No. 1E—2 in. Long..... | Each \$1.50 |
|------------------------|-------------|

CALIPER AND WIRE GAUGES

BROWN & SHARPE



English or Birmingham Standard

Tongues graduated to 32nds on both sides. Jaws are 2 in. deep. The tongue is graduated on both sides to 32nds of an inch and can be drawn out to measure 4 in. The gauge numbers run from 1 to 32.

The tool is useful for stock and store room purposes in selecting iron, steel and sheet stock, also for iron and steel rollers use.

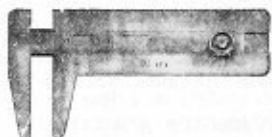
The slide is locked in position with a clamp nut. Each No. 677—5 3/4 in. Long, 3/8 in. Thick.....\$13.50

United States Standard, for Sheet and Plate Iron or Steel This is similar to the No. 677 Gauge, but has the U. S. Metal Gauge numbers, which run from 1 to 32. Each No. 680—5 3/4 in. Long, 3/8 in. Thick.....\$13.50

One in a Box.

ROLLING MILL CALIPER GAUGES

BROWN & SHARPE



Slide Secured in Position by Lock Nut

For use on heavy class of work in rolling mills, measuring sheet iron and steel. Hardened steel jaws 2 1/2 in. deep and can be opened to measure 4 inches. Tongue graduated on one side 32nds of an inch.

Each No. 674—5 1/2 in. Long, 1 1/2 in. Thick.....\$9.00

One in a Box.

STARRETT



For Use in Steel Mills, Jaw and Slide One Piece

This gauge is made only in the English or Birmingham Standard and the United States Standard for sheet and plate iron and steel. As gauges in rolling mills are preferred as compact as possible, yet strong enough to withstand hard usage, the movable jaw and graduated slide are made in one piece. It is hardened and finished bright. Graduations first inch are 32nds, remainder 16ths. Opening of Caliper 4 in. Depth of jaws 1 1/2 in. Width 1 1/2 in.

| | |
|---|--------------|
| No. 293A—Sizes 1 to 30, English or Birmingham Standard..... | Each \$13.50 |
| No. 293B—Sizes 1 to 30, United States Standard..... | 13.50 |
| One in a Box. | |

ROLLING MILL GAUGES

BROWN & SHARPE

U. S. Standard

For Sheet and Plate Iron and Steel. Adopted by Congress March 3, 1893.

| | |
|------------------------------|-------------|
| No. 685—000 to 25 Gauge..... | Each \$4.00 |
| Six in a Box. | |

English or Birmingham Standard

High Grade Steel, Hardened and Tempered.



| | |
|-------------------------|-------------|
| No. 684A—000 to 25..... | Each \$4.00 |
| No. 684B—1 to 32..... | 4.75 |
| Six in a Box. | |

DRILL GAUGES

STARRETT TIME SAVER



Polished Steel, Hardened

Each
No. 185—6 1/4 in. Long, 2 3/8
in. Wide, 3/8 in. Thick.
Weight 4 1/2 Oz. \$2.40

Has table giving regular machine screw tap sizes, also proper drill size for same. Gauge shows wire gauge sizes from 1 to 60.

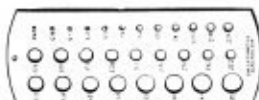
Three in a Box.

STARRETT JOBBERS

Polished Steel, Hardened and
Tempered

Each

No. 187—6 1/4 in. Long, 2 3/8
in. Wide, 3/8 in. Thick.
Weight Each 4 1/2 Oz. \$2.75



This Gauge shows sizes from 1/8 to 1/2 in., varying by 64ths. Each size is designated by both common and decimal fractions.

Three in a Box.

BROWN & SHARPE WIRE GAUGE

Tested After Hardening

Contains Gauge numbers 1
to 60 inclusive with decimal
equivalents of various sizes
stamped on back.

Each

No. 705A—5 1/4 in. Long, 1 1/2 in. Wide, 3/8 in. Thick,
Weight Each 3 1/2 Oz. \$2.00
Six in a Box.



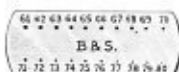
BROWN & SHARPE JEWELERS

Tested After Hardening

Contains Gauge numbers from 1 to
80 inclusive.

Each

No. 705B—2 in. Long, 3/4 in. Wide, 1/8 in. Thick,
Weight Each 1/2 Oz. \$2.40
Six in a Box.



SCREW AND WIRE GAUGES

BROWN & SHARPE POCKET



Front Side.



Rear Side.

Polished Steel

Graduated on the front to show all sizes of the American Standard screw gauge from 0 to 30 and is designed for the measurement of wire as well as of machine and wood screws. Will also show the sizes of A. S. M. E. Standard screws.

In addition to the gauge numbers, the front side of the gauge is also graduated to 32nds of an inch.

Reverse side is graduated as old or English Wire Gauge, from 17 to 0000, also new or American Wire Gauge from 15 to 0000.

Each

No. 700—3 in. Long. \$3.00
Six in a Box.

BROWN & SHARPE LARGE



Polished Steel

Graduated on both sides, American Screw Gauge 0 to 30. Also A. S. M. E. Standard and measurements of wire. The back of gauge is graduated English Wire Gauge from 17 to 0000 on the right and to 32nds of an inch on the left of slot. The outer left hand edge is graduated in 32nds of an inch.

Each

No. 702—5 1/2 in. Long. \$5.50
Six in a Box.

MACHINISTS BEVELS

BROWN & SHARPE UNIVERSAL



Slotted Blade and Stock

| | | |
|---------------------------------------|--------|------|
| Nos. | 498A | 498B |
| Length of Head and Tongue, Inches.... | 1 1/4 | 3 |
| Width of Head and Tongue, Inches.... | 1/4 | 5/8 |
| Each | \$2.40 | 2.40 |

One in a Box.

BROWN & SHARPE IMPROVED UNIVERSAL



With Offset Blade

Each

No. 499—3 in. Long, with Offset Blade that Admits of the Measurement of All Angles, Case is Solid on the Top, for 1 1/2 in. from the Square End. \$2.00
One in a Box.

STARRETT UNIVERSAL



With Offset Blade

Useful for bevel gear work, etc., as any angle can be obtained. One edge of case being solid a rest is formed directly under the blade, where thin templates may be placed and accurately fitted.

Each

No. 15—3 in. Long. \$2.00
One in a Box.

STARRETT IMPROVED



No. 47—With Clamping Screw Head

| | | | |
|---------------------|--------|-------|------|
| Blade, Inches | 6 | 9 | 12 |
| Stock, Inches | 3 1/2 | 4 1/4 | 6 |
| Each | \$1.75 | 2.75 | 3.75 |

The advantages of this bevel over any other tool of this kind made, consists in its having not only the blade slotted, but the stock as well, thus admitting adjustments that cannot be obtained with a common bevel.

One in a Box.

STARRETT COMBINATION

With Auxiliary Blade



This bevel has a stud riveted in the straight edge stock or head, on which its split blade is hinged, so as to swing over the stock and be clamped at any angle. The slotted auxiliary blade with clamp bolt may be slipped on to the split blade and can be clamped at any desired angle and used, in combination with the stock of the other, for laying out work, measuring, or showing any angle desired, and when so combined will lie flat upon its work.

Each

No. 49—4 in. Stock. \$2.50
One in a Box.

BEVEL PROTRACTORS

STARRETT STEEL



Graduated in Degrees 0 to 90
Both Ways

Each
No. 19—6 in. Blade...\$2.25

By means of a patent lock, the joint is set firmly by a slight turn of the nut. The

back of the tool will lie flat. Convenient for setting bevels, transferring angles, as a small T Square, or for a large number of other uses.

One in a Box.

Graduated in Degrees 0 to 90
Both Ways

Used for setting bevels Nos. 15, 47 and 49 at any desired angle, thus converting them into bevel protractors at slight cost.

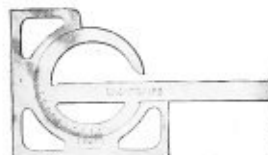
Each

No. 193\$1.25

One in a Box.



BROWN & SHARPE DRAFTSMEN'S



Quickly Set to Any Angle

Tool Steel, Accurately Ground and Polished. Used either side up and on either of the two outside edges of the frame. It has a vernier which reads to five minutes.

Each

No. 510—Blade $8\frac{1}{2}$ in. Long.....\$12.00
Leather Case, Extra 3.00

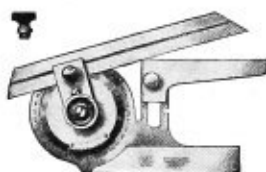
It can be used to advantage in dividing a circle, transferring angles or laying off a given angle, without resetting, on either side of a line.

The Vernier reads to five minutes.

This Protractor forms a convenient extension of a T square and frequently takes the place of 45° and 60° angles.

One in a Box.

BROWN & SHARPE IMPROVED UNIVERSAL



With Acute Angle Attachment

Designed for all classes of work where angles are to be laid out, and with the acute angle attachment extremely small angles can be easily and quickly established. All measurements are accurate for the dial is accurately graduated. A Vernier which reads to 5 minutes or $\frac{1}{2}$ of a degree, adds materially to the fineness to which angles can be laid out.

One side of the tool is flat, thus permitting its being laid flat upon the paper or work. The dial is accurately graduated to degrees the entire circle, the graduated surface being depressed to protect the graduations from wear.

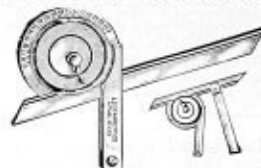
The blade is about $\frac{1}{16}$ in. thick, can be moved back and forth its entire length and clamped independently of the dial.

Each
No. 496A—With 6 in. Blade.....\$22.50
No. 496B—With 6 in. Blade, in Leather Case..... 24.50
No. 496C—With 12 in. Blade 23.75
No. 496D—With 12 in. Blade, in Leather Case..... 26.00
No. 496E—With Both 6 and 12 in. Blades..... 24.50
No. 496F—With Both 6 and 12 in. Blades, in
Leather Case 26.75

One in a Box.

BEVEL PROTRACTORS

STARRETT UNIVERSAL



A Graduated Disc with a Fixed Blade and Adjustable Stock

Any given angle may be laid off or measured by setting the stock at that angle by the graduated disc. This tool has a very wide range of usefulness.

The blade is $\frac{1}{2}$ in. wide and the stock is 4 in. long; both are made from sheet steel nicely finished. The tool weighs 6 oz. The disc is graduated in degrees from zero to 90° each way and rotates the entire circle on a center stud. The blade, clamped by an eccentric stud against the end of the disc, may slide back and forth its full length or turn through any angle around the circle and be clamped firmly at any point. It is thus adapted to positions impossible with other protractors and renders unnecessary the use of the common bevel in transferring angles.

One side of the center being flat makes it a convenient tool for laying on paper in drafting and it has double the utility of any similar tool.

Each

No. 360A—With 7 in. Blade\$10.50
No. 360B—With 7 in. Blade, in Leather Case.... 12.30
No. 360C—With 12 in. Blade 11.75
No. 360D—With 12 in. Blade in Leather Case.... 13.75
No. 360E—With Both 7 and 12 in. Blades..... 12.50
No. 360F—Same in Leather Case..... 14.50
No. 360G—Acute Angle Attachment, Extra..... 3.00

One in a Box.

STARRETT IMPROVED UNIVERSAL



With Extremely Fine Adjustment

Similar to the No. 360 except that dial is graduated to degrees the entire circle and is equipped with a Vernier and has encased a positive method for fine adjustments. The acute angle attachment renders it available for small angles.

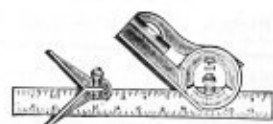
Each

No. 359A—With 7 in. Blade\$22.50
No. 359B—With 7 in. Blade in Leather Case.... 24.50
No. 359C—With 12 in. Blade 23.75
No. 359D—With 12 in. Blade in Leather Case.... 26.00
No. 359E—With Both 7 and 12 in. Blades..... 24.50
No. 359F—With Both 7 and 12 in. Blades, in
Leather Case 26.75

One in a Box.

INCLINOMETERS

STARRETT



No. 10—With Hardened Steel Blade

With No. 4 Graduations 8ths 16ths, 32nds and 64ths.

Length, Inches..... 12 18 24
Without Center Head.....Each, \$6.00 7.00 8.00
With Center Head.....Each, 6.90 7.90 8.90

It consists of a stock and disc, both slotted to receive the blade, which folds in the stock. The blade attached to the graduated rotary disc may be secured at any angle from 0 to 90 degrees, and by loosening the clamp screw it may be shortened or extended full length, or removed for a straight edge.

One in a Box.

BEVEL PROTRACTORS

STARRETT



No. 12—With Hardened Steel Blade and Level

Blade Graduated with Heavy Figures Reading Both Ways. No. 4 Graduation: One Side 8ths and 16ths, Other Side 32nds and 64ths.

| | | | | |
|------------------------|--------|------|------|------|
| Length Blade, Inches.. | 9 | 12 | 18 | 24 |
| Each | \$4.50 | 5.10 | 6.00 | 6.90 |

Head Only—With Level.....Each, \$3.00

An adjustable rule, held firmly at any point by a thumb nut, passes through a revolving turret which is nicely graduated in degrees from 0 to 90, both right and left, can be accurately adjusted to show any angle.

One in a Box.

LUFKIN



No. 5—With Hardened Steel Blade and Level

Blade Graduated 8ths, 16ths, 32nds and 64ths. Revolving Turret Graduated 0 to 90 Degrees.

| | | | | |
|------------------------|--------|------|------|------|
| Length Blade, Inches.. | 9 | 12 | 18 | 24 |
| Each | \$4.50 | 5.10 | 6.00 | 6.90 |

Head Only—With Level.....Each, \$3.00

One in a Box.



No. 6—With Hardened Steel Blade and Level

Same as No. 5 with Reversible Head.

| | | | | |
|------------------------|--------|------|------|------|
| Length Blade, Inches.. | 9 | 12 | 18 | 24 |
| Each | \$5.40 | 5.70 | 6.90 | 7.50 |

Head Only—With Level.....Each, \$4.20

One in a Box.

BROWN & SHARPE SINGLE



No. 450—With Hardened Steel Blade and Level

Blade Graduated 8ths, 16ths, 32nds and 64ths. Revolving Turret Graduated 0 to 90 Degrees.

| | | | | |
|------------------------|--------|------|------|------|
| Length Blade, Inches.. | 9 | 12 | 18 | 24 |
| Each | \$4.50 | 5.10 | 6.00 | 6.90 |

Head Only—With Level.....Each, \$3.00

One in a Box.

BROWN & SHARPE DOUBLE



No. 456—With Hardened Steel Blade and Level

Same as No. 450 with Reversible Head.

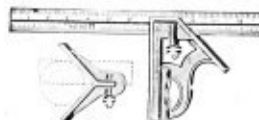
| | | | | |
|------------------------|--------|------|------|------|
| Length Blade, Inches.. | 9 | 12 | 18 | 24 |
| Each | \$5.40 | 5.70 | 6.90 | 7.50 |

Head Only—With Level.....Each, \$4.20

One in a Box.

COMBINATION SQUARES

STARRETT



No. 11—With Center Head

Japanned Iron, Head and Level, Tempered Steel Blade, No. 4 Graduations: One Side 8ths and 16ths; Other Side 32nds and 64ths.

| | | | | | | |
|------------------|--------|------|------|------|------|------|
| Length, Inches.. | 4 | 6 | 9 | 12 | 18 | 24 |
| Each | \$2.10 | 2.40 | 3.00 | 3.60 | 4.50 | 5.40 |

No. 11—Without Center Head

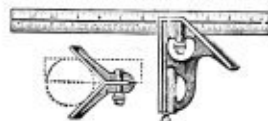
| | | | | | | |
|------------------|--------|------|------|------|------|------|
| Length, Inches.. | 4 | 6 | 9 | 12 | 18 | 24 |
| Each | \$1.50 | 1.80 | 2.40 | 3.00 | 3.90 | 4.80 |

The heads of the 4 in. squares do not contain Level.

Note—Unless otherwise specified these Squares will be sent with center heads.

One in a Box.

STARRETT DROP FORGED



No. 33—With Center Head

Hardened Drop Forged Head with Level, Tempered Steel Blade, No. 4 Graduations: One Side 8ths and 16ths; Other Side 32nds and 64ths.

| | | | | | |
|---------------------|--------|------|------|------|------|
| Length, Inches..... | 6 | 9 | 12 | 18 | 24 |
| Each | \$3.90 | 4.50 | 4.80 | 6.00 | 6.60 |

No. 33—Without Center Head

| | | | | | |
|---------------------|--------|------|------|------|------|
| Length, Inches..... | 6 | 9 | 12 | 18 | 24 |
| Each | \$3.00 | 3.60 | 3.90 | 5.10 | 5.70 |

Note—Unless otherwise specified these Squares will be sent with center heads.

One in a Box.

STARRETT SETS



No. 9—With Single Bevel Protractor

Japanned Iron Head with Level, Tempered Steel Blade, No. 4 Graduations: One Side 8ths and 16ths; Other Side 32nds and 64ths. With No. 12 Protractor.

| | | | | |
|---------------------|--------|------|------|------|
| Length, Inches..... | 9 | 12 | 18 | 24 |
| Each | \$6.00 | 6.60 | 7.50 | 8.40 |

This Set combines the regular Starrett No. 11 Combination Square with Center Head and the No. 12 Bevel Protractor to which is attached a small level which may be used to show any degree.

One in a Box.

STARRETT DROP FORGED SETS



No. 433—With Single Bevel Protractor

Hardened Drop Forged Head with Level and Center Head, Tempered Steel Blade with No. 4 Graduations: One Side 8ths and 16ths; Other Side 32nds and 64ths. No. 492 Protractor.

| | | | | |
|---------------------|--------|------|------|------|
| Length, Inches..... | 9 | 12 | 18 | 24 |
| Each | \$7.50 | 7.80 | 9.00 | 9.60 |

This Set combines the regular Starrett No. 33 Combination Square with Center Head and No. 492 Protractor with Level attached. The No. 492 is the same as No. 12 Protractor except it has smooth finish to match the No. 33 Square.

One in a Box.

COMBINATION SQUARES

LUFKIN



No. 25—Without Center Head

Olive Drab Finish Iron Heads with Level, Tempered Steel Blade, No. 4 Graduations, One Side 8ths and 16ths; Other Side 32nds and 64ths.

| | | | | | | |
|-------------------|---------------|---------------|---------------|----------------|----------------|----------------|
| Length, Inches... | 4 | 6 | 9 | 12 | 18 | 24 |
| Wt. Each, Lbs... | $\frac{1}{8}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $1\frac{1}{8}$ | $1\frac{3}{8}$ | $1\frac{5}{8}$ |
| Each | \$1.50 | 1.80 | 2.40 | 3.00 | 3.90 | 4.80 |

*The Heads of 4 in. Squares do not contain Level.
One in a Box.



No. 25C—With Center Head

Olive Drab Finish Iron Heads with Level, Tempered Steel Blade, No. 4 Graduations, One Side 8ths and 16ths; Other Side 32nds and 64ths.

| | | | | | | |
|-------------------|---------------|---------------|---------------|----------------|----------------|----------------|
| Length, Inches... | 4 | 6 | 9 | 12 | 18 | 24 |
| Wt. Each, Lbs... | $\frac{1}{8}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $1\frac{1}{8}$ | $1\frac{3}{8}$ | $1\frac{5}{8}$ |
| Each | \$2.10 | 2.40 | 3.00 | 3.60 | 4.50 | 5.40 |

*The Heads of 4 in. Squares do not contain Level.
One in a Box.

LUFKIN DROP FORGED



No. 35—Without Center Head

Olive Drab Drop Forged Steel Head with Level, Tempered Steel Blade, No. 4 Graduations; One Side 8ths and 16ths; Other Side 32nds and 64ths.

| | | | | | |
|---------------------|---------------|---------------|----------------|----------------|----------------|
| Length, Inches... | 6 | 9 | 12 | 18 | 24 |
| Weight Each, Lbs... | $\frac{3}{8}$ | $\frac{5}{8}$ | $1\frac{1}{8}$ | $1\frac{3}{8}$ | $1\frac{5}{8}$ |
| Each | \$3.00 | 3.60 | 3.90 | 5.10 | 5.70 |

One in a Box.



No. 35C—With Center Head

Olive Drab Drop Forged Steel Head with Level, Tempered Steel Blades, No. 4 Graduations; One Side 8ths and 16ths; Other Side 32nds and 64ths.

| | | | | | |
|---------------------|---------------|---------------|----------------|----------------|----------------|
| Length, Inches... | 6 | 9 | 12 | 18 | 24 |
| Weight Each, Lbs... | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{4}$ | $1\frac{3}{4}$ | $1\frac{5}{4}$ |
| Each | \$3.90 | 4.50 | 4.80 | 6.00 | 6.60 |

One in a Box.

LUFKIN JUNIOR



With Center Head

These Squares are similar to the regular No. 25C Squares, but are of lighter weight, with small heads and narrow blades for Tool Makers' and Pattern Makers' use. Each

| | |
|---|--------|
| No. 135—6x $\frac{5}{8}$ x $\frac{1}{8}$ in. Blade, 2 $\frac{1}{2}$ in. Stock, 2 $\frac{1}{2}$ in. Center Head, Weight Each 4 Oz..... | \$3.50 |
| No. 135C—With Readable Graduations..... | 4.40 |

One in a Box.

COMBINATION SQUARES

LUFKIN SETS



No. 525—With Single Bevel Protractor

Olive Drab Finish Iron Head with Level and Center Head, Tempered Steel Blade, with No. 4 Graduations, One Side 8ths and 16ths. No. 5 Protractor.

| | | | | |
|----------------------|----------------|----------------|----------------|----------------|
| Length, Inches..... | 9 | 12 | 18 | 24 |
| Weight Each, Lbs.... | $1\frac{1}{2}$ | $1\frac{3}{8}$ | $2\frac{1}{8}$ | $2\frac{3}{8}$ |
| Each | \$6.00 | 6.60 | 7.50 | 8.40 |

This Set combines the regular Lufkin No. 25C Combination Square with Center Head and No. 5 Bevel Protractor with Level Attachment. One in a Box.

LUFKIN SETS



No. 625—With Reversible Bevel Protractor

Olive Drab Finish Iron Head with Level and Center Head, Tempered Steel Blade, with No. 4 Graduations, One Side 8ths and 16ths. No. 6 Protractor.

| | | | | |
|----------------------|----------------|----------------|----------------|----------------|
| Length, Inches..... | 9 | 12 | 18 | 24 |
| Weight Each, Lbs.... | $1\frac{1}{2}$ | $2\frac{1}{8}$ | $2\frac{3}{8}$ | $2\frac{5}{8}$ |
| Each | \$7.20 | 7.80 | 8.70 | 9.60 |

This Set combines the regular Lufkin No. 25C Combination Square with Center Head and No. 6 Bevel Protractor with Level Attachment. One in a Box.

LUFKIN DROP FORGED SETS



No. 535—With Single Bevel Protractor

Olive Drab Drop Forged Steel Head with Level and Center Head, Tempered Steel Blade with No. 4 Graduations; One Side 8ths and 16ths; Other Side 32nds and 64ths. No. 5 Protractor.

| | | | | |
|----------------------|----------------|------|----------------|----------------|
| Length, Inches..... | 9 | 12 | 18 | 24 |
| Weight Each, Lbs.... | $1\frac{1}{8}$ | 2 | $2\frac{1}{8}$ | $2\frac{3}{8}$ |
| Each | \$7.50 | 7.80 | 9.00 | 9.60 |

This Set combines the regular Lufkin No. 35C Combination Square with Center Head and No. 5 Bevel Protractor with Level Attachment. One in a Box.



No. 635—With Reversible Bevel Protractor

Olive Drab Drop Forged Steel Head with Level and Center Head, Tempered Steel Blade with No. 4 Graduations; One Side 8ths and 16ths; Other Side 32nds and 64ths. No. 6 Protractor.

| | | | | |
|----------------------|----------------|----------------|----------------|----------------|
| Length, Inches..... | 9 | 12 | 18 | 24 |
| Weight Each, Lbs.... | $1\frac{1}{8}$ | $2\frac{1}{8}$ | $2\frac{3}{8}$ | $2\frac{5}{8}$ |
| Each | \$8.70 | 9.00 | 10.20 | 10.80 |

This Set combines the regular Lufkin No. 35C Combination Square with Center Head and No. 6 Bevel Protractor with Level Attachment. One in a Box.

All the above Combination Squares contain scriber in head of square.

COMBINATION SQUARES

BROWN & SHARPE



No. 400—With Center Head

Hardened Drop Forged Head with Level, Tempered Steel Blade, No. 4 Graduations; One Side 8ths and 16ths; Other Side 32nds and 64ths.

| | | | | | |
|----------------|--------|------|------|------|------|
| Length, Inches | 6 | 9 | 12 | 18 | 24 |
| Each | \$3.90 | 4.50 | 4.80 | 6.00 | 6.60 |

One in a Box.



No. 401—Without Center Head

Hardened Drop Forged Head with Level, Tempered Steel Blade, No. 4 Graduations; One Side 8ths and 16ths; Other Side 32nds and 64ths.

| | | | | | | |
|----------------|--------|------|------|------|------|------|
| Length, Inches | 4 | 6 | 9 | 12 | 18 | 24 |
| Each | \$2.40 | 3.00 | 3.60 | 3.90 | 5.10 | 5.70 |

One in a Box.

BROWN & SHARPE SETS

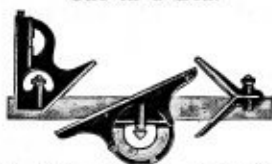


No. 425—With Single Bevel Protractor

Hardened Drop Forged Head with Level and Center Head, Tempered Steel Blade, No. 4 Graduations; One Side 8ths and 16ths; Other Side 32nds and 64ths. No. 450 Protractor.

| | | | | |
|----------------|--------|------|------|------|
| Length, Inches | 9 | 12 | 18 | 24 |
| Each | \$7.50 | 7.80 | 9.00 | 9.60 |

One in a Box.



No. 438—With Double Bevel Protractor

Hardened Drop Forged Head with Level and Center Head, Tempered Steel Blade, No. 4 Graduations; One Side 8ths and 16ths; Other Side 32nds and 64ths. No. 456 Protractor.

| | | | | |
|-------------------|--------|------|-------|-------|
| Length, Inches | 9 | 12 | 18 | 24 |
| Weight Each, Lbs. | | | | |
| Each | \$8.70 | 9.00 | 10.20 | 10.80 |

One in a Box.

STARRETT HEAVY STANDARD



No. 8—Without Center Head

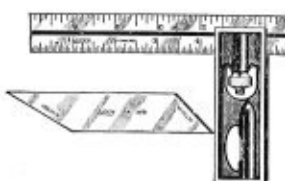
With Hardened Blade, 1 1/2 in. Wide, 1/10 in. Thick, 1 1/8 in. Stock, 5 in. Mitre. No. 4 Graduations.

| | | |
|-------------------|--------|------|
| Length, Inches | 18 | 24 |
| Weight Each, Lbs. | | |
| Each | \$7.00 | 9.00 |

Center Head—Extra. Each, \$2.00
One in a Box.

MACHINISTS STEEL SQUARES

LUFKIN DOUBLE



With Hardened Blades

No. 4 Graduations.

These Squares are very convenient for pattern makers, machinists and tool makers in certain classes of work. The blades are adjustable in length by moving the head. Both faces of the head are square.

The 6 in. heads are equipped with level. The bevel blade gives hexagon and octagon angles and is so marked.

The Drill Grinding Blade converts the tool into a practical Drill Grinding Gauge.

No. 26A—With Sliding Blade Only

| | | |
|------------------|--------|------|
| Length, Inches | 4 | 6 |
| Weight Each, Oz. | 2 | 7 |
| Each | \$1.50 | 2.40 |

No. 26B—With Graduated and Bevel Blades

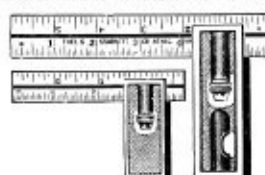
| | | |
|----------------|--------|------|
| Length, Inches | 4 | 6 |
| Each | \$2.00 | 3.00 |

No. 26C—With Graduated, Bevel and Drill Grinding Blades

| | |
|----------------|--------|
| Length, Inches | 6 |
| Each | \$4.25 |

One in a Box.

STARRETT PATENT DOUBLE



No. 13—Sliding Hardened Steel Blade, No. 4 Graduation

One side 8ths and 16ths, Other Side 32nds and 64ths

The Sliding Blade, shortened or extended full length, makes it more valuable than a full set of regular solid squares, while with the extra bevel blade both hexagon and octagon angles may be procured, a feature of great convenience to the patternmaker.

With Sliding Blade Only

| | | | | |
|----------------|--------|------|------|------|
| Length, Inches | 4 | 6 | 9 | 12 |
| Each | \$1.50 | 2.40 | 3.60 | 4.75 |

With Two Blades, One Sliding and One Bevel

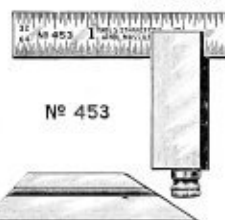
| | | |
|----------------|--------|------|
| Length, Inches | 4 | 6 |
| Each | \$2.00 | 3.00 |

This Square is conceded the most practical one for machinists and fine tool makers ever offered.

Note—The 4 in. Square is furnished without, and the 6, 9 and 12 in. Square with Level in Stock.

One in a Box.

STARRETT DIE MAKERS



No. 453

With Hardened Blades

Designed to provide means whereby the blade can be adjusted at any angle with the beam. For filing the clearance in dies, etc. By releasing small screw the fulcrum pin is forced back and the blade clamped firmly in its seat and used as a regular square.

| | |
|---|--------|
| | Each |
| No. 453A—Square Only | \$4.00 |
| No. 453B—Square with Either Bevel or Narrow Blade | 4.30 |
| No. 453C—Square Complete with 3 Blades | 4.60 |

One in a Box.

MACHINISTS STEEL SQUARES

STARRETT DOUBLE STEEL

With Hardened Head and Blade
The Sliding Scale is $2\frac{1}{2}$ in. long, especially adapted for tool makers. It is graduated on one side 32nds and 64ths. A bevel blade also a narrow blade $\frac{1}{8}$ in. wide is furnished for die work. Each

No. 14A—Square Only. \$3.25

No. 14B—Square with
Either Bevel or Narrow
Blade 3.55

No. 14C—Complete with
3 Blades 3.85

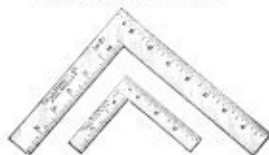


Large Size Each

No. 14D—Stock $2\frac{1}{4}$ in. Long, 4 in. Graduated Blade. \$4.00

No. 14E—Same as No. 14D, with Bevel Blade Added. 4.50
One in a Box.

STARRETT THIN



For Machinists and Draftsmen

Each

No. 21A— 2×1 in., $1/20$ in. Thick, Graduated 16ths and 64ths on One Side, 32nds and 64ths on Other Side \$2.10

No. 21B— 3×2 in., $1/20$ in. Thick, Graduated 16ths and 64ths on One Side, 32nds and 64ths on Other Side 2.70

No. 21C— 4×3 in., $1/16$ in. Thick, Graduated 16ths and 32nds on Both Sides 3.60

No. 21D— 6×4 in., $1/16$ in. Thick, Graduated 16ths and 32nds on Both Sides 5.10

No. 21E— 8×6 in., $1/16$ in. Thick, Graduated 16ths and 32nds on Both Sides 6.60

No. 21F— 10×8 in., $1/16$ in. Thick, Graduated 16ths and 32nds on Both Sides 8.10

No. 21G— 12×8 in., $3/32$ in. Thick, Graduated 16ths and 32nds on Both Sides 9.60

BROWN & SHARPE HARDENED STEEL



No. 540—Solid Steel, Hardened Edge, Not Graduated

Specially Recommended as a Standard for Testing.

| | | | | |
|---------------------------|-----------------|----------------|----------------|-----------------|
| Length Blade, Inches..... | $1\frac{1}{2}$ | 3 | $4\frac{1}{2}$ | 6 |
| Length Beam, Inches..... | $1\frac{1}{8}$ | $2\frac{3}{8}$ | $3\frac{3}{8}$ | $4\frac{3}{8}$ |
| Each | \$3.60 | 4.50 | 6.90 | 9.00 |
| Fancy Wood Case, Extra.. | 2.25 | 2.25 | 2.50 | 2.50 |
| Length Blade, Inches..... | 9 | 12 | 15 | 18 |
| Length Beam, Inches..... | 5 $\frac{1}{8}$ | $1\frac{1}{4}$ | $8\frac{3}{8}$ | $10\frac{1}{4}$ |
| Each | \$13.50 | 18.00 | 30.00 | 34.50 |
| Fancy Wood Case, Extra.. | 2.75 | 3.00 | 4.00 | 4.50 |

MILLWRIGHTS SQUARES

BROWN & SHARPE

Designed to meet the Requirements of a More Accurate Tool than the Ordinary Carpenters' Square Each

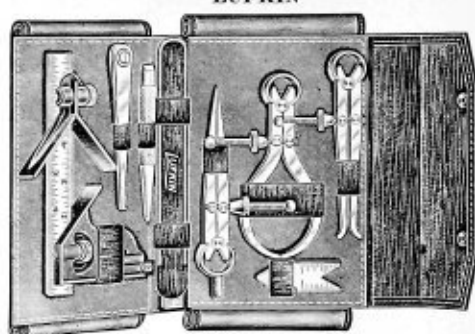
No. 550—Blade 24 in. Long, 2 in. Wide, Tongue 18 in. Long, $1\frac{1}{2}$ in. Wide, Weight

Each 2 Lbs. \$17.00

Both blades are $\frac{1}{8}$ in. thick at the corner where they unite, and taper down to $\frac{1}{16}$ in. at their ends. They have similar graduations on both sides, one inside and outside corner being graduated in 8ths and the other inside and outside corners graduated in 16ths. One inside and outside corner of one side has the first inch graduated in 64ths and the second inch in 32nds and similarly on the other side.

MACHINISTS TOOL SETS

LUFKIN



For Students and Apprentices

Per Set

No. 1—8 Tools as Listed Below in Folding Leather Case $7 \times 5 \times 1\frac{1}{4}$ in., Weight Each $1\frac{1}{2}$ Lbs. \$8.75

Contents of No. 1 Set

| | |
|-------------------------------------|--|
| 1 No. 26C, 6 in. Combination Square | 1 No. 41, 4 in. Outside Spring Caliper |
| 1 No. 71C, Center Punch | 1 No. 42, 4 in. Inside Spring Caliper |
| 1 No. 611D, 6 in. Steel Rule | 1 No. 40, 4 in. Spring Divider |
| 1 No. 036, Center Gauge | |
| 1 No. 17, 4 in. Hermaphrodite. | |

One Set in a Box.

COMBINATION SQUARE ATTACHMENTS

STARRETT

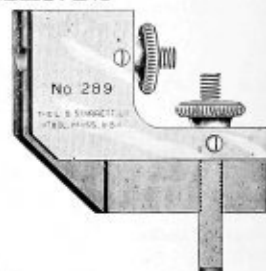
Fits Any Standard Rule

This attachment is made to fit the 12, 18 and 24 in. blades of Nos. 11, 23 and 33 Squares, and can be used in connection with any of the regular steel rules as wide as 1 in., or with No. 21 flat steel square for laying out key seats, etc. Each

No. 289A— $1\frac{1}{2} \times 1\frac{1}{2}$ in. \$1.00

No. 289B— $2\frac{1}{2} \times 2\frac{1}{2}$ in. 1.25

Four in a Box.

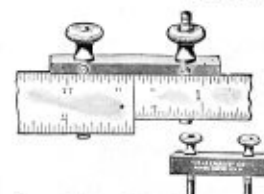


RULE CLAMPS

STARRETT
Blued Steel

Used to clamp two steel rules together, end to end, making one long rule. The rules may be of the same or different widths up to $1\frac{1}{4}$ in. Of special value to mechanics whose tool chest will usually not hold rules longer than 12 in. Each

No. 299— $2\frac{1}{2}$ in. Long, Weight Each 2 Oz. \$0.60
Four in a Box.



KEYSEAT RULE CLAMPS

STARRETT

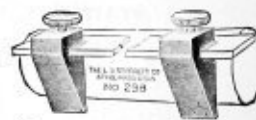
Used with Any Steel Rule

For laying out keyways, scribbing parallel lines and on circular pieces. Per Pair

No. 298—Case Hardened Steel, Accurately

Ground \$0.75

One Pair in a Box.



MECHANICS REFERENCE TABLES

LUFKIN

Flexible Spring Steel $6\frac{1}{4}$ in. Long, $1\frac{1}{4}$ in. Wide. Each

No. 97 $\frac{1}{2}$ —One Side

Contains Tap Drill

Sizes for U. S. S. S.

A. E. and Pipe Threads, Also 6 in. Scale, Opposite Side

Decimal Equivalents of Fractions $\frac{1}{16}$ to $\frac{3}{16}$ in., Weight

Each 1 Oz. \$0.90

Six in a Box.



CALIPERS AND DIVIDERS

STARRETT

TOOLMAKERS SPRING DIVIDERS

No. 277—With Solid Nut

Round Steel Legs, Highly Polished, Hardened Fulcrum Stud, Unusually Stiff Spring that insures Rigidity of the Legs and gives Uniform Pressure.

| | | | |
|---------------------|--------|------|------|
| Length, Inches..... | 2 | 3 | 4 |
| Each | \$1.20 | 1.50 | 1.80 |
| Length, Inches..... | 5 | 6 | |
| Each | \$1.80 | 2.10 | |

TOOLMAKERS SPRING CALIPERS

With Solid Nut

Round Steel Legs, Highly Polished, Hardened Fulcrum Stud, Unusually Stiff Spring that insures Rigidity and Prevents Side Deflection of the Legs and gives Uniform Pressure.

| | | | | | |
|-----------------------|--------------|------|------|------|------|
| Length, Inches..... | 2 | 3 | 4 | 5 | 6 |
| No. 274—Inside | Each, \$1.20 | 1.50 | 1.80 | 1.80 | 2.10 |
| No. 275—Outside | Each, 1.20 | 1.50 | 1.80 | 1.80 | 2.10 |

Two in a Box.

LUFKIN

TOOLMAKERS SPRING DIVIDERS

No. 140—With Solid Nut

The Legs are of Round Stock, nicely tapered by swaging. The Adjustment Screw is mounted central with the legs, avoiding all torsion on Legs and Spring. These features add to the stability of the tool. The legs are finely formed. Stiff flat Bow Spring insures reliability. Parts most subject to wear are hardened.

| | | | | | |
|----------------|--------|------|------|------|------|
| Length, In.... | 2 | 3 | 4 | 5 | 6 |
| Each | \$1.20 | 1.50 | 1.80 | 1.80 | 2.10 |

TOOLMAKERS SPRING CALIPERS

With Solid Nut

The Legs are Round Stock, nicely tapered by swaging. The Adjustment Screw is mounted central with the legs, avoiding all torsion on legs and spring. These features add to the stability of the tool. The legs are finely formed. Stiff flat Bow Spring insures reliability. Parts most subject to wear are hardened.

| | | | | | |
|-----------------------|--------------|------|------|------|------|
| Length, Inches..... | 2 | 3 | 4 | 5 | 6 |
| No. 141—Inside | Each, \$1.20 | 1.50 | 1.80 | 1.80 | 2.10 |
| No. 142—Outside | Each, 1.20 | 1.50 | 1.80 | 1.80 | 2.10 |

Two in a Box

FAY PATENT SPRING DIVIDERS

No. 77—With Spring Nut

Drop Forged Steel Legs, Polished, Improved from extra stiff Spring, Heavy Body, Automatic Closing Spring Nut, Self-Adjusting.

| | | | |
|---------------------|--------|------|------|
| Length, Inches..... | 2½ | 3 | 4 |
| Each | \$1.40 | 1.40 | 1.70 |
| Length, Inches..... | 5 | 6 | 8 |
| Each | \$1.70 | 2.10 | 2.40 |

No. 77—With Solid Nut

| | | | |
|---------------------|--------|------|------|
| Length, Inches..... | 2½ | 3 | 4 |
| Each | \$1.20 | 1.20 | 1.50 |
| Length, Inches..... | 5 | 6 | 8 |
| Each | \$1.50 | 1.95 | 2.25 |

Sent with Spring Nut unless otherwise ordered.

Two in a Box.

STARRETT

FAY PATENT SPRING CALIPERS

With Spring Nut

Drop Forged Steel Legs, Polished, improved form extra stiff Spring, Heavy Body Automatic Closing Spring Nut, Self-Adjusting.

Always sent with Spring Nut unless otherwise ordered.

(Prices Each).

| | | | | | | |
|----------------------|--------|------|------|------|------|------|
| Length, Inches..... | 2½ | 3 | 4 | 5 | 6 | 8 |
| No. 74—Inside | \$1.40 | 1.40 | 1.50 | 1.50 | 1.80 | 2.10 |
| No. 75—Outside | 1.40 | 1.40 | 1.50 | 1.50 | 1.80 | 2.10 |

With Solid Nut

| | | | | | | |
|----------------------|--------|------|------|------|------|------|
| Length, Inches..... | 2½ | 3 | 4 | 5 | 6 | 8 |
| No. 74—Inside | \$1.20 | 1.20 | 1.35 | 1.35 | 1.65 | 1.95 |
| No. 75—Outside | 1.20 | 1.20 | 1.35 | 1.35 | 1.65 | 1.95 |

Two in a Box.

YANKEE SPRING DIVIDERS

No. 83—With Solid Nut

Polished Steel, Tempered, Flat Steel Bow, Light Weight.

| | | | | |
|------------------|--------|------|------|------|
| Length, Inches.. | 2½ | 3 | 4 | 5 |
| Each | \$0.80 | .85 | .90 | 1.00 |
| Length, Inches.. | 6 | 8 | 10 | 12 |
| Each | \$1.05 | 1.35 | 1.65 | 1.80 |

No. 83—With Spring Nut

| | | | | |
|------------------|--------|------|------|------|
| Length, Inches.. | 2½ | 3 | 4 | 5 |
| Each | \$1.00 | 1.05 | 1.10 | 1.15 |
| Length, Inches.. | 6 | 8 | 10 | 12 |
| Each | \$1.20 | 1.50 | 1.80 | 2.00 |

Sent with Solid Nut unless otherwise ordered. Three in a Box.

YANKEE SPRING CALIPERS

With Solid Nut

Polished Steel, Tempered Flat Steel Bow, Light Weight.

The No. 73 can be used as a Transfer Caliper as the bow is stiff, making the caliper reliable. After caliper inside of chambered cavity by springing in the legs they may be withdrawn and as they spring back will show exact size calipered.

| | | | | |
|----------------------|--------------|------|------|------|
| Length, Inches..... | 2½ | 3 | 4 | 5 |
| No. 73—Inside | Each, \$0.80 | .85 | .90 | 1.00 |
| No. 79—Outside | Each, .80 | .85 | .90 | 1.00 |
| Length, Inches..... | 6 | 8 | 10 | 12 |
| No. 73—Inside | Each, \$1.05 | 1.20 | 1.65 | 1.80 |
| No. 79—Outside | Each, 1.05 | 1.20 | 1.65 | 1.80 |

With Spring Nut

| | | | | |
|----------------------|--------------|------|------|------|
| Length, Inches..... | 2½ | 3 | 4 | 5 |
| No. 73—Inside | Each, \$1.00 | 1.05 | 1.10 | 1.15 |
| No. 79—Outside | Each, 1.00 | 1.05 | 1.10 | 1.15 |
| Length, Inches..... | 6 | 8 | 10 | 12 |
| No. 73—Inside | Each, \$1.20 | 1.40 | 1.80 | 2.00 |
| No. 79—Outside | Each, 1.20 | 1.40 | 1.80 | 2.00 |

Sent with Solid Nuts unless otherwise ordered.

Three in a Box.

PARTS FOR YANKEE CALIPERS AND DIVIDERS

| | Each | | Each |
|---------------------|--------|--------------------|--------|
| Screw and Ball..... | \$0.20 | Spring | \$0.30 |
| Thumb Attachment... | .20 | Jam Washer | .15 |
| Solid Nut | .15 | Fulcrum Stud | .15 |
| Spring Nut | .30 | Stud | .15 |
| Leg | .30 | | |

CALIPERS AND DIVIDERS

BANNER SPRING DIVIDERS



No. 40—With Solid Nut

Made of Finest Quality Steel, Light in Weight, Correct in Shape, Hardened Points.

| | | | | | | |
|-------------|--------|-----|-----|------|------|------|
| Length, In. | 2½ | 3 | 4 | 5 | 6 | 8 |
| Each | \$0.80 | .85 | .90 | 1.00 | 1.05 | 1.35 |

No. 50—With Spring Nut

| | | | | | | |
|-------------|--------|------|------|------|------|------|
| Length, In. | 2½ | 3 | 4 | 5 | 6 | 8 |
| Each | \$1.00 | 1.05 | 1.10 | 1.15 | 1.20 | 1.50 |

The spring nut is designed for quick adjustment. On release of pressure the nut slides freely over the threads of the screw but grips when pressure is applied.

Three in a Box.

BANNER SPRING CALIPERS

With Solid Nut

Made of Finest Quality Steel, Light in Weight, Correct in Shape, Hardened Points.

They are the type of Spring Calipers most widely used. The inside type can be used as a transfer caliper, as the legs can be sprung in and withdrawn after caliper.



No. 41.



No. 42.

| | | | | | | |
|----------------------|--------|-----|-----|------|------|------|
| Length, Inches | 2½ | 3 | 4 | 5 | 6 | 8 |
| No. 41—Outside, Each | \$0.80 | .85 | .90 | 1.00 | 1.05 | 1.20 |
| No. 42—Inside, Each | .80 | .85 | .90 | 1.00 | 1.05 | 1.20 |

With Spring Nut

The Spring Nut is designed for making quick adjustments. On release of pressure this nut slides freely over the threads of the screw, but on slightest pressure it grips the screw firmly.

| | | | | | | |
|----------------------|--------|------|------|------|------|------|
| Length, Inches | 2½ | 3 | 4 | 5 | 6 | 8 |
| No. 51—Outside, Each | \$1.00 | 1.05 | 1.10 | 1.15 | 1.20 | 1.40 |
| No. 52—Inside, Each | 1.00 | 1.05 | 1.10 | 1.15 | 1.20 | 1.40 |

Three in a Box.

YANKEE SPRING THREAD CALIPERS

No. 80—With Solid Nut

Polished Steel, Tempered Flat Steel Bow, Light in Weight.

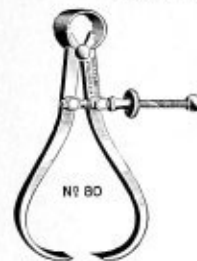
These Calipers have wide flat points and are intended for measuring threads on bolt studs and other threaded parts.

| | | | |
|----------------|--------|------|------|
| Length, Inches | 3 | 4 | 5 |
| Each | \$1.05 | 1.10 | 1.15 |

No. 80—With Spring Nut

| | | | |
|----------------|--------|------|------|
| Length, Inches | 3 | 4 | 5 |
| Each | \$1.20 | 1.30 | 1.35 |

Sent with Solid Nut unless otherwise ordered.



No. 80

No. 179—With Solid Nut

Polished Steel, Tempered Flat Steel Bow, Light in Weight.

These Calipers are designed for measuring the diameter at bottom of threads on the outside of screws.

| | | | |
|----------------|--------|------|------|
| Length, Inches | 4 | 5 | 6 |
| Each | \$0.90 | 1.00 | 1.05 |

No. 179—With Spring Nut

| | | | |
|----------------|--------|------|------|
| Length, Inches | 4 | 5 | 6 |
| Each | \$1.10 | 1.15 | 1.20 |

Sent with Solid Nut unless otherwise ordered.

Three in a Box.



No. 179

CALIPERS

YANKEE SPRING INSIDE THREAD

No. 184—With Solid Nut

Polished Steel, Tempered Flat Steel Bow, Light in Weight, Hardened Finished Points.

These Calipers are designed for measuring the diameter at bottom of internal threads. For measuring inside of nuts, etc.

| | | | |
|----------------|--------|------|------|
| Length, Inches | 4 | 5 | 6 |
| Each | \$0.90 | 1.00 | 1.05 |

No. 184—With Spring Nut

| | | | |
|----------------|--------|------|------|
| Length, Inches | 4 | 5 | 6 |
| Each | \$1.10 | 1.15 | 1.20 |

Sent with Solid Nut unless otherwise ordered.

Three in a Box.



No. 184

LUFKIN FIRM JOINT

Polished Steel

The distinctive feature of these Firm Joint Calipers is the adjustable joint. Lock screw construction enables one to set and hold the legs to any desired tension or friction.

These Tools are of sturdy construction throughout, smooth working, nicely proportioned, and have a fine, uniform finish.

All sizes below refer to lengths of legs. Actual capacity of the Calipers is about one-quarter greater than this length.



No. 11.



No. 12.

No. 11—Outside

| | | | | | | | |
|----------------|--------|------|------|------|------|------|------|
| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| Each | \$0.50 | .60 | .70 | .80 | 1.00 | 1.10 | 1.20 |
| Length, Inches | 14 | 16 | 18 | 20 | 24 | 30 | 36 |
| Each | \$1.80 | 2.10 | 2.55 | 3.00 | 3.60 | 6.00 | 7.20 |

No. 12—Inside

| | | | | | | |
|----------------|--------|------|------|------|------|------|
| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
| Each | \$0.50 | .60 | .70 | .80 | 1.00 | 1.10 |
| Length, Inches | 12 | 14 | 16 | 18 | 20 | 24 |
| Each | \$1.20 | 1.80 | 2.10 | 2.55 | 3.00 | 3.60 |

3 to 6 in., Six; 8 to 12 in., Three; 14 to 20 in., Two in a Box; Other Sizes, One in a Package.

STARRETT IMPROVED FIRM JOINT

Polished Steel

The Joint is tightened by means of a screw. The main stud is squared and fitted to one leg thus preventing the stud turning when adjusting the tension, insuring a smooth and uniform friction. Much superior to the common rivet joint kind.



No. 26



No. 27

No. 26—Outside

| | | | | | | | |
|----------------|--------|------|------|------|------|------|------|
| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| Each | \$0.50 | .60 | .70 | .80 | 1.00 | 1.10 | 1.20 |
| Length, Inches | 14 | 16 | 18 | 20 | 24 | 30 | 36 |
| Each | \$1.80 | 2.10 | 2.55 | 3.00 | 3.60 | 6.00 | 7.20 |

No. 27—Inside

| | | | | | | |
|----------------|--------|------|------|------|------|------|
| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
| Each | \$0.50 | .60 | .70 | .80 | 1.00 | 1.10 |
| Length, Inches | 12 | 14 | 16 | 18 | 20 | 24 |
| Each | \$1.20 | 1.80 | 2.10 | 2.55 | 3.00 | 3.60 |

The capacity of these Calipers is about one-third greater than length.

3 to 12 in., Three; 14 to 24 in., Two in a Box; 30 and 36 in., One in a Package.

CALIPERS

STARRETT LOCK-JOINT

Polished Steel

These Calipers can be instantly adjusted to their full extent, and as quickly locked firm in the joint, and yet provided with a sensitive adjustment. The improvement consists in a socket joint made tapering, and locked or released by a partial turn of the knurled disc drawing it together. A Spring Washer under the Disc maintains an easy friction in the joint when unlocked.



No. 38—Outside

| | | | | | | |
|-------------------|--------|------|------|------|------|------|
| Length, Inches... | 4 | 5 | 6 | 8 | 10 | 12 |
| Each | \$1.10 | 1.15 | 1.20 | 1.50 | 1.80 | 2.10 |
| Length, Inches... | 14 | 16 | 18 | 20 | 24 | |
| Each | \$2.40 | 2.70 | 3.00 | 3.30 | 4.20 | |

No. 39—Inside

| | | | | | | |
|-------------------|--------|------|------|------|------|------|
| Length, Inches... | 4 | 5 | 6 | 8 | 10 | 12 |
| Each | \$1.10 | 1.15 | 1.20 | 1.50 | 1.80 | 2.10 |
| Length, Inches... | 14 | 16 | 18 | 20 | 24 | |
| Each | \$2.40 | 2.70 | 3.00 | 3.30 | 4.20 | |

4 to 12 in., Three; 14 to 24 in., Two in a Box.

STARRETT LOCK-JOINT TRANSFER

Polished Steel

These Calipers may be used inside of chambered cavities, over flanges, etc., removed and replaced without losing the size calipered.

This is done by loosening the nut binding one arm to the auxiliary leaf and swinging it out or in (while the joint is locked) to clear the obstruction, then moving it back against a stop where it will show exact size measured.



No. 36—Inside

| | | | | | | |
|-------------------|--------|------|------|------|------|------|
| Length, Inches... | 4 | 5 | 6 | 8 | 10 | 12 |
| Each | \$1.50 | 1.70 | 1.80 | 2.10 | 2.40 | 2.70 |
| Length, Inches... | 14 | 16 | 18 | 20 | 24 | |
| Each | \$3.00 | 3.30 | 3.60 | 4.20 | 5.50 | |

No. 37—Outside

| | | | | | | |
|-------------------|--------|------|------|------|------|------|
| Length, Inches... | 4 | 5 | 6 | 8 | 10 | 12 |
| Each | \$1.50 | 1.70 | 1.80 | 2.10 | 2.40 | 2.70 |
| Length, Inches... | 14 | 16 | 18 | 20 | 24 | |
| Each | \$3.00 | 3.30 | 3.60 | 4.20 | 5.50 | |

4 to 12 in., Three; 14 to 24 in., Two in a Box.

STARRETT DOUBLE

No. 44—With Improved Firm Friction Joints

These Instruments Combine Dividers, Inside and Outside Calipers and can be used in a number of combinations for different classes of work.

| | | |
|----------------------|--------|------|
| Length, Inches | 6 | 8 |
| Each | \$1.50 | 1.80 |

Three in a Box.



BROWN & SHARPE COMBINATION

With Spring Bow

The arms or holders are provided with split chucks to receive the auxiliary legs, which are held firmly by the simple turn of the knurled nut that closes the chuck concentrically. A pencil can be substituted for one of the legs if desired.

Each

| | |
|--|--------|
| No. 840—Complete as Illustrated, 10 in. Long.... | \$3.60 |
| No. 840A—With Divider Legs Only..... | 2.40 |

One in a Box.

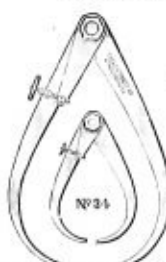


CALIPERS

STARRETT FIRM-JOINT SCREW-ADJUSTING

Polished Steel

The screw adjustment for fine measurements, the improved joint which may be set to any desired degree of uniform tension, the shape and stiffness of the legs, quickness and wide scope of adjustment—all go to make this Caliper a leader in its line.



No. 34—Outside

| | | | | | | |
|-------------------|--------|------|------|------|------|------|
| Length, Inches... | 4 | 6 | 8 | 10 | 12 | 14 |
| Each | \$1.10 | 1.20 | 1.50 | 1.80 | 2.10 | 2.40 |
| Length, Inches... | 16 | 18 | 20 | 24 | 30 | 36 |
| Each | \$2.70 | 3.00 | 3.30 | 4.20 | 7.20 | 8.40 |

No. 35—Inside

| | | | | | | |
|-------------------|--------|------|------|------|------|--|
| Length, Inches... | 4 | 6 | 8 | 10 | 12 | |
| Each | \$1.10 | 1.20 | 1.50 | 1.80 | 2.10 | |
| Length, Inches... | 14 | 16 | 18 | 20 | 24 | |
| Each | \$2.40 | 2.70 | 3.00 | 3.30 | 4.20 | |

4 to 12 in., Three; 14 to 24 in., Two in a Box.

HERMAPHRODITE CALIPERS

STARRETT



No. 41—Adjustable Point

Improved Spring Joint with Smooth Uniform Friction.

| | | | | |
|----------------------|--------|------|------|------|
| Length, Inches | 4 | 6 | 8 | 10 |
| Each | \$0.80 | 1.00 | 1.20 | 1.45 |

Three in a Box.



No. 42—Adjustable Point, Lock Joint, Sensitive Adjustment

| | | | | |
|----------------------|--------|------|------|------|
| Length, Inches | 4 | 6 | 8 | 10 |
| Each | \$1.10 | 1.20 | 1.50 | 1.80 |

Three in a Box.



No. 243—Adjustable Point, Firm Joint, Offset Leg

| | | |
|----------------------|--------|------|
| Length, Inches | 4 | 6 |
| Each | \$0.80 | 1.00 |

Three in a Box.

LUFKIN



No. A-17—With Round Adjustable Point

| | | | |
|----------------------|--------|------|------|
| Length, Inches | 4 | 6 | 8 |
| Each | \$0.80 | 1.00 | 1.20 |

Three in a Box.

LOCK LEG DIVIDERS

STARRETT



No. 43—Polished Steel

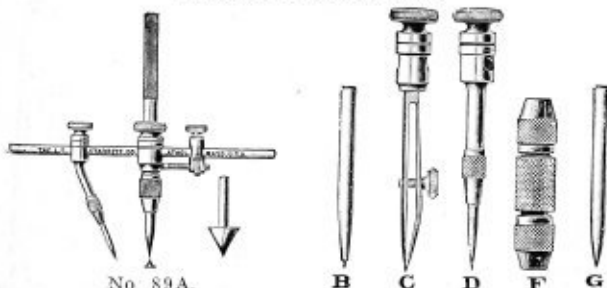
With improved lock-joint attachment and sensitive adjustment. It is light and rigid with large capacity, instantly opened, closed, and locked. The points are nicely tempered.

| | | | |
|----------------------|--------|------|------|
| Length, Inches | 6 | 8 | 10 |
| Each | \$1.20 | 1.50 | 1.80 |

Three in a Box.

DIVIDERS

STARRETT UNIVERSAL



No. 89A.

For Engineers, Architects and Draftsmen

The adjustable Scriber Holder is reversible and carries either a fine tempered Steel Point or a Pencil Lead, held in a Split Socket by a Knurled Nut. With the Holder turned outward it is possible to work close to shoulders, something that cannot be done by a similar tool of any other make; turned inward, points may be brought close together to scribe the smallest circle. With 4 in. beam a 7½ in. circle and under may be scribed. An auxiliary beam 13 in. long is furnished, with which a 25 in. circle may be drawn. The cone enter may be substituted for the regular point, adapting the tool for scribing a drilled hole. We also furnish a pen attachment.

No. 89A—Tool with 4 in. Beam and Cone Center, as Shown Above \$3.00

| Each | Each |
|---|--------|
| No. 89B—Needle Points | \$0.35 |
| No. 89C—Pen Attachment | 2.15 |
| No. 89D—Extra Straight Point and Socket | .70 |
| No. 89E—Extra 13 in. Beam to Scribe 25 in. Circle | .35 |
| No. 89F—Coupling | .55 |
| No. 89G—Extra Steel Points | .20 |
| No. 89H—Tool and All Attachments | 7.20 |
| Case for No. 89A—Extra | 1.50 |
| Case for No. 89H—Extra | 2.10 |
| One in a Box. | |

STARRETT IMPROVED EXTENSION

With Hardened Steel Points



A well made Divider with auxiliary legs, which together with a common pencil, form convenient combinations. By adjustment of points the 7 in. becomes 9 in., and will scribe a 22 in. circle and will caliper 11 in. outside and 13 in. inside. By adjustment of points the 9 in. becomes 12 in. and will scribe a 30 in. circle and caliper 14 in. outside and 16 in. inside.

| Each | Each |
|---|--------|
| No. 85A—7 in. Long, with Divider Legs Only | \$1.80 |
| No. 85B—9 in. Long, with Divider Legs Only | 2.10 |
| No. 85C—7 in. Long, Complete | 3.00 |
| No. 85D—9 in. Long, Complete | 3.30 |
| No. 85E—12 in. Long, with Divider Legs Only | 3.00 |
| No. 85F—12 in. Long, Complete | 4.20 |
| One in a Box. | |

BALL POINTS

STARRETT

For Use with No. 85 Dividers or Nos. 51 and 59 Trammels

| Per Set | Per Set |
|--|---------|
| No. 88—Holder and Four Balls, One Each 1½, 1, ¾ and ½ in. Diameter | \$1.50 |
| Either Ball or Holder | .30 |

When it is necessary to use a hole as center for dividers or trammels it is, of course, impossible to use an ordinary divider point. In such cases the Ball Point placed in the hole and bearing against the edges forms a seat for the divider leg in scribing circles or arcs around the hole.

One Set in a Box.



DIVIDERS

STARRETT LOOSE LEGS

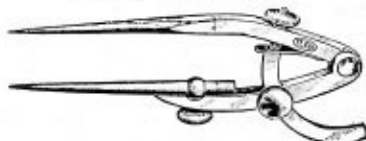
No. 92—Tempered Steel Points

The quadrant passes through the leg and the clamp screw frictionally locks it firm. After fine adjustments are made, our style of lock nut, between the arms, locks the spring in the leg firm, overcoming the defect in the old style dividers of the points dodging out and in with the grain of the wood. The adjustable point may be instantly removed and a common pencil inserted in its place, or the ball points shown below may be used. The dividers are light, yet rigid and easy to handle.



| Length, Inches..... | 6 | 7 | 8 | 9 |
|---------------------|--------|------|------|------|
| Each | \$1.45 | 1.55 | 1.65 | 1.75 |
| Two in a Box. | | | | |

PEXTO EXTENSION



No. 9—One Movable Leg

Forged Steel, Polished, Brass Joints.

| Length, Inches | 6 | 8 |
|-----------------------------|---------|-------|
| Weight Per Dozen, Lbs. | 4 ½ | 5 ¾ |
| Per Dozen | \$15.00 | 18.00 |

One-half Dozen in a Box.

PEXTO WING



No. 35—Forged Steel, Polished

Oil Tempered, Brass Joint, Knurled Adjusting Screw.

| Length, Inches..... | 6 | 7 | 8 | 10 |
|-------------------------|---------|-------|-------|-------|
| Weight Dozen, Lbs. | 4 | 4 ¼ | 4 ½ | 8 |
| Per Dozen | \$8.50 | 9.50 | 10.50 | 14.00 |
| Length, Inches | 12 | 15 | 18 | |
| Weight Dozen, Lbs. | 12 | 14 | 19 ½ | |
| Per Dozen | \$16.00 | 42.00 | 48.00 | |

One-half Dozen in a Box.

PENCIL CLASPS

STANLEY

For Attaching to Dividers

Nickel Plated Iron with Steel Thumb Screw.



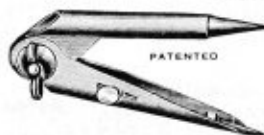
| No. 8—1 ¼ in. Long, Weight Per Dozen ½ Lb. | Per Dozen \$2.10 |
|---|------------------|
| One Dozen on a Display Card | |

SCRIBERS

GEM NEW STYLE

With Adjustable Steel Point

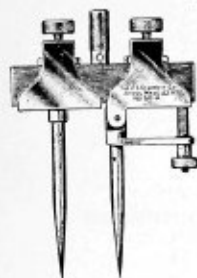
Polished Stamped Steel Frame, Steel Set Screw and Thumb Nut, One Leg with Adjustable Steel Point and One to Hold Pencil.



| No. 10—3 ½ in. Long, Weight Per Dozen 1 Lb. | Per Dozen \$3.00 |
|--|------------------|
| One Dozen in a Box. | |

TRAMMELS

STARRETT IMPROVED



With Adjustable Points

Bronze Metal Bodies, Hardened Forged Steel Points. Either point can be removed and the pencil socket accompanying each pair put in its place. Adjustable like spring dividers, light and durable.

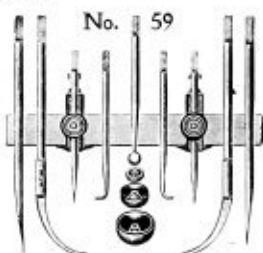
| | |
|---|---------|
| No. 50A—With 3 in. Points, Adjustable, Weight Per Set 5 Oz. | \$3.50 |
| No. 50B—Not Adjustable, Otherwise Same as No. 50A | 2.25 |
| | Per Set |

No. 50C—Extra Long Points (5 in. Long) for No. 50B Trammels \$0.50
One in a Box.

STARRETT NEW



This illustration gives a more detailed representation of the Trammel Heads.



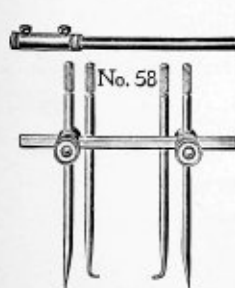
This cut shows the trammels fastened to a wooden beam, which may be any size from $\frac{3}{4}$ in. to $1\frac{1}{2}$ in. wide, and of any thickness desired (requiring no fitting), giving stiffness according to the length and adapting it for small or large work.

| | |
|--|-----------------|
| No. 59A Set—Trammel Heads Only, with One Pair of Points, Weight Each 9 Oz. | Per Set, \$2.40 |
| No. 59B—Balls and Holder. | Per Set, 1.50 |
| No. 59C—Small Caliper Legs. | Per Pair, .60 |
| No. 59D—Large Caliper Legs. | Per Pair, .90 |
| No. 59E—Large Divider Points. | Per Pair, .60 |
| No. 59F Set—Complete as Shown, Weight Each 1 1/2 Lbs. | 5.75 |

The auxiliaries designed to go with the trammel heads are as shown above, viz., inside and outside caliper legs, an extra pair of long points, a set of four ball points with holder, which enable one to scribe a circle from the center of any hole up to $1\frac{1}{2}$ in. and under. A lead pencil may be used in place of either of the steel points. The clamping device is adapted to take in either a small or common sized pencil. The trammels are furnished with or without auxiliaries.

STARRETT EXTENSION STEEL BEAM

Plain Finish



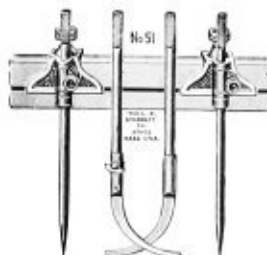
The beam of this tool is $\frac{5}{16}$ in. round, with one side flattened. It is made in one, two and three sections, of 14 in. lengths each, and coupled together by means of an improved socket coupling and grip nut, rigidly holding them for long reaches. With one 14 in. section only, it weighs but 8 oz. The slides carrying the points grip both beam and points by a partial turn of the knurled nut. Fine adjustments are made by a slight rotation of one or the other eccentric point, which by friction springs retain it when the nut is loosened.

| | |
|-------------------------------------|---------------|
| No. 58A—With One Section, 14 in. | Each \$2.65 |
| No. 58B—With Two Sections, 28 in. | 3.15 |
| No. 58C—With Three Sections, 42 in. | 3.60 |
| Extra Sections | .60 |
| Extra Caliper Points. | Per Pair, .60 |
| | One in a Box. |

TRAMMELS

STARRETT EXTENSION BEAM

Nickel Plated



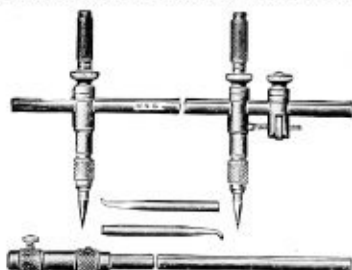
With opening through the under side to accommodate the extension giving width and stiffness in proportion to the length required for large work, while it is equally well adapted to receive a narrow beam for light work.

The points are eccentric, and may be loosened and rotated in their sockets to make fine adjustments. Points may be removed and pencil inserted.

One of the caliper legs is provided with a joint, worked by an eccentric thumb piece for fine adjustments.

| | |
|-------------------------------|---------------|
| No. 51A—Complete Set | Each \$4.35 |
| No. 51B—Without Caliper Legs. | 3.35 |
| | One in a Box. |

BROWN & SHARPE STEEL BEAM



Complete with One Pair of Caliper Points

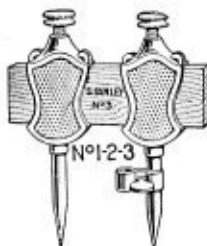
The trams are clamped by knurled nuts to the beam, which is flattened on top, and the thrust taken by washers to prevent marring the bearing surfaces. A spring friction holds the trams in place when the nuts are loosened for setting. One tram has an adjusting screw and slide, which is convenient for fine adjustment of the points. A swivel handle at the top of each tram is a noticeable advantage, as it enables the trammels to be much more conveniently and accurately used than is possible with fixed handles.

| | |
|---|---------------|
| No. 845—With 9 in. Beam, Will Describe a Circle 18 in. in Diameter. | Each \$6.00 |
| No. 845A—With 13 in. Beam, Will Describe a Circle 26 in. in Diameter. | 6.00 |
| No. 845B—With 13 in. Beam and Extension, Will Describe a Circle 54 in. in Diameter. | 7.00 |
| | One in a Box. |

STANLEY BRONZE

Bronze Bodies, Steel Points

With Attachment for Clamping Pencil to Either Point.



| Nos. | 1 | 2 | 3 |
|------------------------|---------------|------|----------------|
| Width of Open., Inches | $\frac{5}{8}$ | 1 | $1\frac{1}{4}$ |
| Wt. Per Set, Oz. | 4 | 6 | 10 |
| Per Set. | \$1.60 | 2.05 | 2.80 |

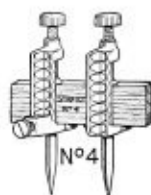
One in a Box.

STANLEY IRON

Nickel Plated

They can be attached to one side of a straight stick. The pencil socket will take an ordinary size pencil or a full sized oval shaped carpenter's pencil.

| | |
|--|---------------|
| No. 4—For Straight Edge Up to $1\frac{1}{4}$ in. | Each \$1.15 |
| | One in a Box. |



MACHINISTS STEEL RULES

Machinists' Steel Rules are divided into parts of inches as follows:

| No. 1 Graduation | | No. 2 Graduation | | No. 4 Graduation | | No. 7 Graduation | |
|------------------|-----------------|------------------|-----------------|------------------|----|------------------|-----|
| 1st corner | 10, 20, 50, 100 | 1st corner | 10, 20, 50, 100 | 1st corner | 64 | 1st corner | 64 |
| 2d corner | 12, 24, 48 | 2d corner | 12, 24, 48 | 2d corner | 32 | 2d corner | 32 |
| 3d corner | 16, 32, 64 | 3d corner | 16, 32, 64 | 3d corner | 16 | 3d corner | 16 |
| 4th corner | 14, 28 | 4th corner | 8 | 4th corner | 8 | 4th corner | 100 |

| No. 10 Graduation | | No. 11 Graduation | | No. 12 Graduation | |
|-------------------|----|-------------------|-----|-------------------|-----|
| 1st corner | 32 | 1st corner | 64 | 1st corner | 50 |
| 2d corner | 64 | 2d corner | 100 | 2d corner | 100 |

STARRETT REGULAR SPRING TEMPERED



No. 300—With No. 4 Graduations

 $\frac{1}{8}$ in. Thick, without End Graduations.

| Length, Inches | 1 | 2 | 3 | 4 | 6 | 9 |
|----------------|---------------|----------------|----------------|----------------|----------------|---------------|
| Width, Inches | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Each | \$0.30 | .45 | .60 | .75 | .90 | 1.35 |
| Length, Inches | 12 | 18 | 24 | 36 | 48 | |
| Width, Inches | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | |
| Each | \$1.65 | 2.60 | 3.25 | 7.00 | 10.00 | |

No. 301—Same as above with No. 1 Graduations.

No. 302—Same as above with No. 2 Graduations.

No. 307—Same as above with No. 7 Graduations.

Nos. 301 and 302 made 6 and 12 in. only; No. 307 made 1 to 48 in.

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.



No. 303—With No. 4 Graduations.

 $\frac{3}{16}$ in. Thick, with End Graduations.

| Length, Inches | 2 | 3 | 4 | 6 | 9 | 12 |
|----------------|---------------|---------------|---------------|---------------|---------------|------|
| Width, Inches | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Each | \$0.45 | .60 | .75 | .90 | 1.35 | 1.65 |

Six in a Box.

STARRETT SPRING TEMPERED



No. 603—With Figured Graduations.

No. 4 Graduations, $\frac{1}{16}$ in. Thick. The 64ths are numbered every 8th Graduation Line as 8, 16, 24, etc.

| Length, Inches | 1 | 2 | 3 | 4 | 6 |
|----------------|---------------|---------------|----------------|----------------|---------------|
| Width, Inches | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Each | \$0.30 | .45 | .60 | .75 | .90 |
| Length, Inches | 9 | 12 | 18 | 24 | |
| Width, Inches | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | |
| Each | \$1.35 | 1.65 | 2.60 | 3.25 | |

These rules are graduated on both ends of one side in 32nds as shown in cut.

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

STARRETT BEVELED EDGE SPRING TEMPERED



No. 400—With No. 4 Graduations.

 $\frac{1}{8}$ in. Thick, with 64ths on Beveled Edge.

| Length, Inches | 1 | 2 | 3 | 4 | 6 |
|----------------|---------------|---------------|----------------|----------------|---------------|
| Width, Inches | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Each | \$0.30 | .45 | .60 | .75 | .90 |
| Length, Inches | 9 | 12 | 18 | 24 | |
| Width, Inches | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | |
| Each | \$1.35 | 1.65 | 2.60 | 3.25 | |

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

LUFKIN REGULAR SPRING TEMPERED



No. 2204—With No. 4 Graduations.

 $\frac{1}{8}$ in. Thick, with Graduations on both ends of one side in 32nds.

| Length, Inches | 1 | 2 | 3 | 4 | 6 | 9 |
|----------------|---------------|----------------|----------------|----------------|----------------|---------------|
| Width, Inches | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Each | \$0.30 | .45 | .60 | .75 | .90 | 1.35 |
| Length, Inches | 12 | 18 | 24 | 36 | 48 | |
| Width, Inches | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | |
| Each | \$1.65 | 2.60 | 3.25 | 7.00 | 10.00 | |

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

LUFKIN SPRING TEMPERED



No. 2204R—With Figured Graduations.

No. 4 Graduations, $\frac{1}{16}$ in. Thick. The 64ths are numbered every 8th Graduation Line as 8, 16, 24, etc.

| Length, Inches | 1 | 2 | 3 | 4 | 6 |
|----------------|---------------|---------------|----------------|----------------|---------------|
| Width, Inches | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Each | \$0.30 | .45 | .60 | .75 | .90 |
| Length, Inches | 9 | 12 | 18 | 24 | |
| Width, Inches | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | |
| Each | \$1.35 | 1.65 | 2.60 | 3.25 | |

These rules are graduated on both ends of one side in 32nds.

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

BROWN & SHARPE SPRING TEMPERED



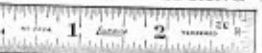
No. 315—With Figured Graduations.

No. 4 Graduations, about $\frac{1}{16}$ of an inch Thick. The 64ths are numbered every 8th Graduation line as 8, 16, 24, etc.

| Length, Inches | 1 | 2 | 3 | 4 | 6 |
|----------------|---------------|---------------|----------------|----------------|---------------|
| Width, Inches | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Each | \$0.30 | .45 | .60 | .75 | .90 |
| Length, Inches | 9 | 12 | 18 | 24 | |
| Width, Inches | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | |
| Each | \$1.35 | 1.65 | 2.60 | 3.25 | |

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

LUFKIN BEVELED EDGE SPRING TEMPERED



No. 2224—With No. 4 Graduations.

These Rules are used by Tool Makers, Draftsmen, Engineers and Architects, and are very handy for laying out work. $\frac{1}{8}$ in. Thick.

| Length, Inches | 4 | 6 | 9 | 12 |
|-------------------|---------------|---------------|---------------|------|
| Thickness, Inches | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Each | \$0.75 | .90 | 1.35 | 1.65 |

Six in a Box.

STARRETT STAINLESS STEEL



No. 1000—With No. 4 Graduations.

Will not Rust or Stain, made of Stainless Steel, Specially Heat Treated.

| Length, Inches | 6 | 12 |
|----------------|---------------|------|
| Width, Inches | $\frac{3}{4}$ | 1 |
| Each | \$1.35 | 2.65 |

Six in a Box.

MACHINISTS STEEL RULES

STARRETT HEAVY SPRING TEMPERED



No. 410—With No. 4 Graduations

About 1/10 inch Thick, without End Graduations.

| | | | | | | | |
|-------------|--------|-------|-------|-------|-------|-------|-------|
| Length, In. | 12 | 18 | 24 | 34 | 48 | 60 | 72 |
| Width, In. | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| Each | \$1.65 | 2.60 | 3.25 | 7.00 | 10.00 | 20.00 | 24.00 |

12 inch, 6 in a Box; Regular Size, 1 in a Package.

LUFKIN HEAVY SPRING TEMPERED



No. 2404—With No. 4 Graduations.

About 1/10 inch Thick, Machine Divided.

| | | | | |
|-------------------|--------|-------|-------|-------|
| Length, Inches | 36 | 48 | 60 | 72 |
| Width, Inches | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| Weight Each, Lbs. | 1 3/4 | 2 1/4 | 2 3/4 | 3 1/4 |
| Each | \$7.00 | 10.00 | 20.00 | 24.00 |

One in a Package.

STARRETT FLEXIBLE STEEL



No. 320—With No. 10 Graduations

Very Thin, Graduated One Side Only.

| | | | | | |
|----------------|--------|------|------|------|------|
| Length, Inches | 1 | 2 | 3 | 4 | 6 |
| Width, Inches | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| Each | \$0.30 | .45 | .60 | .75 | .90 |
| Length, Inches | 9 | 12 | 18 | 24 | 36 |
| Width, Inches | 1/2 | 1/2 | 3/4 | 3/4 | 3/4 |
| Each | \$1.35 | 1.65 | 2.60 | 3.25 | 7.00 |

No. 321—With No. 11 Graduations

| | | |
|----------------|--------|------|
| Length, Inches | 6 | 12 |
| Each | \$0.90 | 1.65 |

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

LUFKIN FLEXIBLE STEEL



No. 2110—With No. 10 Graduations

Very Thin and Flexible; Graduated One Side Only.

| | | | | | | |
|----------------|--------|------|------|------|-------|------|
| Length, Inches | 1 | 2 | 3 | 4 | 6 | 9 |
| Width, Inches | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| Each | \$0.30 | .45 | .60 | .75 | .90 | 1.35 |
| Length, Inches | 12 | 18 | 24 | 36 | 48 | |
| Width, Inches | 1/2 | 3/4 | 3/4 | 3/4 | 3/4 | |
| Each | \$1.65 | 2.60 | 3.25 | 7.00 | 10.00 | |

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

BROWN & SHARPE FLEXIBLE STEEL



No. 306—With No. 10 Graduations

Very Thin, About .017 inch Thick; Graduated One Side Only.

| | | | | | | |
|----------------|--------|-----|------|------|------|------|
| Length, Inches | 4 | 6 | 9 | 12 | 18 | 24 |
| Width, Inches | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 |
| Each | \$0.75 | .90 | 1.35 | 1.65 | 2.60 | 3.25 |

1 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

LUFKIN SEMI-FLEXIBLE



No. 2604R—With Figured Graduations

No. 4 Graduations, 1/50 in. Thick. The 64ths are numbered every 8th Graduation Line as 8, 16, 24, etc.

| | | | | | | |
|----------------|--------|-----|-----|-----|------|------|
| Length, Inches | 2 | 3 | 4 | 6 | 9 | 12 |
| Width, Inches | 1/2 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
| Each | \$0.45 | .60 | .75 | .90 | 1.35 | 1.65 |

These Rules are graduated on both ends of one side in 32nds. Six in a Box.

STARRETT NARROW



No. 330—With No. 10 Graduations

Graduated on One Edge of Each Side; 1/8 in. Wide and 1/25 in. Thick.

| | | | | |
|----------------|--------|-----|------|------|
| Length, Inches | 4 | 6 | 9 | 12 |
| Each | \$0.75 | .90 | 1.35 | 1.65 |

No. 331, Same as Above with No. 11 Graduations.

LUFKIN NARROW SPRING TEMPERED



No. 2310—With No. 10 Graduations

Graduated on One Edge of Each Side; 1/8 in. Wide and About 1/20 in. Thick.

| | | | | |
|----------------|--------|-----|------|------|
| Length, Inches | 4 | 6 | 9 | 12 |
| Each | \$0.75 | .90 | 1.35 | 1.65 |

No. 2311—With No. 11 Graduations

| | | | | |
|----------------|--------|-----|------|------|
| Length, Inches | 4 | 6 | 9 | 12 |
| Each | \$0.75 | .90 | 1.35 | 1.65 |

Six in a Box.

STARRETT HOOK



No. 419—With No. 4 Graduations

Hardened Steel Hook. The Hook may be Removed by Turning Eccentric Stud.

| | | | | | | | |
|----------------|--------|------|------|-------|-------|-------|-------|
| Length, Inches | 6 | 9 | 12 | 18 | 24 | 36 | 48 |
| Width, Inches | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/4 | 1 1/2 | 1 1/2 |
| Each | \$1.25 | 1.75 | 2.15 | 3.10 | 3.75 | 7.65 | 10.75 |

For taking measurements from points where one cannot see if rule is even with measuring edge.

6 to 12 inch, 3 in a Box; Larger Sizes, 1 in a Package.

STARRETT ADJUSTABLE HOOK



No. 418—With No. 4 Graduations

Can be Adjusted Short or Long, with Any of the Four Graduations, Hooks are Hardened and are Removable.

| | | | | | |
|----------------|--------|------|------|------|------|
| Length, Inches | 6 | 9 | 12 | 18 | 24 |
| Each | \$1.25 | 1.75 | 2.15 | 3.10 | 3.75 |

6 to 12 inch, 3 in a Box; Larger Sizes, 1 in a Package.

LUFKIN HOOK



No. H2204—With No. 4 Graduations

Hardened Steel Removable Hook. For Measuring Over Round and Square Corners, Hubs of Pulleys, etc.

| | | | | | | |
|----------------|--------|------|------|-------|-------|-------|
| Length, Inches | 6 | 9 | 12 | 18 | 24 | 36 |
| Width, Inches | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/4 | 1 1/4 |
| Each | \$1.25 | 1.75 | 2.15 | 3.10 | 3.75 | 7.65 |

6 to 12 inch, 3 in a Box; Larger Sizes, 1 in a Package.

BROWN & SHARPE HOOK



No. 320—With No. 4 Graduations

Hardened Steel Removable Hook, for Measuring Over Corners, etc.

| | | | | | | | |
|----------------|--------|------|------|------|------|------|------|
| Length, Inches | 4 | 6 | 9 | 12 | 18 | 24 | 36 |
| Width, Inches | 1/2 | 1/2 | 1/2 | 1/2 | 1 | 1 | 1 |
| Each | \$1.10 | 1.25 | 1.75 | 2.15 | 3.10 | 3.75 | 7.65 |

4 to 12 inch Lengths Have End Graduations.

4 to 12 inch, 6 in a Box; Larger Sizes, 1 in a Package.

STARRETT NARROW HOOK



No. 422—With No. 10 Graduations

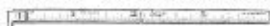
Hardened Steel Hook, Removed by Turning Eccentric Stud, 1/8 in. Wide.

| | | | | |
|----------------|--------|------|------|------|
| Length, Inches | 4 | 6 | 9 | 12 |
| Each | \$1.00 | 1.20 | 1.65 | 2.00 |

Three in a Box.

MACHINISTS STEEL RULES

LUFKIN NARROW HOOK



No. H2310—With No. 10 Graduations

Hardened Steel Removable Hook, with Eccentric Stud, $\frac{3}{16}$ in. Wide.

| | | | | |
|----------------|--------|------|------|------|
| Length, Inches | 4 | 6 | 9 | 12 |
| Each | \$1.00 | 1.20 | 1.65 | 2.00 |

Three in a Box.

BROWN & SHARPE NARROW HOOK



No. 325—With No. 10 Graduations

Hardened Steel Removable Hook, $\frac{3}{16}$ in. Wide.

| | | | | |
|----------------|--------|------|------|------|
| Length, Inches | 4 | 6 | 9 | 12 |
| Each | \$1.00 | 1.20 | 1.65 | 2.00 |

Six in a Box.

STARRETT KEY-SEAT



With Hardened Steel Clamps

No. 105A—6 in. Long, without Straight Edge.....\$2.70

No. 105B—6 in. Long, with Plain Auxiliary Straight

Edge.....3.30

No. 105C—6 in. Long, with Graduated Auxiliary

Straight Edge.....3.60

No. 105D—9 in. Long, without Auxiliary Straight

Edge.....3.60

No. 105E—9 in. Long, with Auxiliary Straight Edge,

Plain.....4.50

No. 105F—9 in. Long, with Auxiliary Straight Edge,

Graduated.....5.10

This Key-Seat Rule is an improvement over the ordinary type in that the Machinists' Scale is used as part of the Key-Seat Rule. This is made possible by a device which holds two straight edges together in the form of a box square. One of these rules is a plain straight edge and the other the rule with which the machinists ordinarily works. The two edges forming the box square when applied to the surface of the cylindrical piece keep the graduated edge of the rule in a line parallel with the axis.

One in a Box.

BROWN & SHARPE KEY-SEAT



No. 374—Hardened Steel

Parallel lines for key seats, mortises, etc., can be readily and accurately drawn with these rules on shafts not less than $\frac{7}{8}$ in. diameter.

The edges are beveled, and graduated to 32nds of an inch.

Length, Inches.....4.....6.....8

Each.....\$3.00.....3.60.....4.50

Six in a Box.

STARRETT THUMB SLIDE



With Removable Thumb Slide

Useful in Measuring Against a Shoulder, the Width of Flanges, Collars, etc. Each

No. 290—6 in. Long, $\frac{3}{16}$ in. Wide, $\frac{1}{16}$ in. Thick, with

No. 4 Graduations.....\$2.00

No. 297—With No. 7 Graduations.....2.00

Three in a Box.

BROWN & SHARPE THUMB SLIDE



With Removable Thumb Slide

For Measuring Against Shoulder or Flanges. Each

No. 380—6 in. Long, $\frac{3}{16}$ in. Wide, $\frac{1}{16}$ in. Thick, with

No. 4 Graduations.....\$2.00

Six in a Box.

MACHINISTS STEEL RULES

BROWN & SHARPE CALIPER



No. 391—With No. 4 Graduations

An Eccentric Nut Locks the Rule when Set.

| | | |
|-----------------|-----------------|-----------------|
| Length, Inches | 3 | 4 |
| Caliper, Inches | 2 $\frac{1}{4}$ | 3 $\frac{1}{4}$ |
| Each | \$5.00 | 5.50 |

Six in a Box.

BROWN & SHARPE SLIDE CALIPER



For Measuring Rods, Tubing, Etc.

No. 385—4 $\frac{3}{16}$ in. Long, $\frac{1}{16}$ in. Wide, $\frac{1}{16}$ in. Thick, Graduated 32nds of an Inch on Both Edges, Jaws are $\frac{3}{8}$ in. Deep.....\$2.50

Six in a Box.

STEEL STRAIGHT EDGES

BROWN & SHARPE



No. 527—Hardened Edges

| | | | | | | | |
|------------------|-----------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|
| Length, Inches.. | 3 $\frac{7}{8}$ | 5 $\frac{1}{2}$ | 7 | 10 $\frac{3}{4}$ | 13 $\frac{3}{4}$ | 17 | 20 |
| Width, Inches.. | $\frac{1}{16}$ | 1 $\frac{1}{8}$ | 1 $\frac{3}{8}$ | 1 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 2 $\frac{3}{8}$ | 2 $\frac{7}{8}$ |
| Thickness, In... | $\frac{1}{16}$ | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Each | \$1.00 | 1.50 | 1.75 | 3.00 | 4.00 | 6.00 | 7.00 |

One in a Package.

STARRETT



No. 380—Plain Edge

Hardened Steel, For Precision Work.

| | | | | |
|-------------------|-----------------|-----------------|-----------------|---------------|
| Length, Inches | 12 | 18 | 24 | 36 |
| Width, Inches | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 |
| Thickness, Inches | $\frac{1}{16}$ | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ |
| Each | \$1.50 | 2.40 | 3.30 | 6.00 |
| Length, Inches | 48 | 60 | 72 | |
| Width, Inches | 2 $\frac{1}{2}$ | 3 | 3 | |
| Thickness, Inches | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | |
| Each | \$9.60 | 14.40 | 19.20 | |

One in a Package.

STARRETT



No. 385—Beveled Edge

For Testing Surfaces for Precision and for use in Work of Sighting and Winding.

| | | | | |
|-------------------|-----------------|-----------------|-----------------|---------------|
| Length, Inches | 12 | 18 | 24 | 36 |
| Width, Inches | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 |
| Thickness, Inches | $\frac{1}{16}$ | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ |
| Each | \$2.00 | 3.25 | 4.50 | 7.20 |
| Length, Inches | 48 | 60 | 72 | |
| Width, Inches | 2 $\frac{1}{2}$ | 3 | 3 | |
| Thickness, Inches | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | |
| Each | \$12.00 | 18.00 | 24.00 | |

One in a Package.

Where lines are to be scribed straight or when surfaces must be tested for their precision, an accurate standard straight edge is generally used. Straight edges are also necessary on some kinds of work for use in sighting for winding. It is needless to say that such straight edges must be absolutely dependable. We have made a line of straight edges which for accuracy cannot be excelled. The various sizes have been selected as being most convenient. The sizes given are approximate.

For Graduations of Steel Rules, See Page 80.

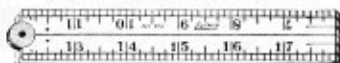
RULES

ONE FOOT, FOUR FOLD

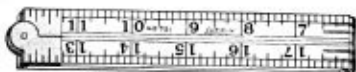


- Per Dozen
No. 475—(65) $\frac{5}{8}$ in. Wide,
Square Joint, Middle Plates,
Marked 8ths and 16ths of
Inches, Weight Per Dozen
 $\frac{3}{4}$ Lb. \$3.60
One-half Dozen in a Box.

TWO FOOT, FOUR FOLD



- With Heavy Figures Per Dozen
No. 651—(68A) 1 in. Wide,
Round Joints, Middle Plates,
Marked 8ths and 16ths of
Inches, Weight Per Dozen
 $1\frac{1}{2}$ Lbs. \$3.00
One Dozen in a Box.



- With Heavy Figures Per Dozen
No. 751—(61) 1 in. Wide, Square
Joint, Middle Plates, Marked
8ths and 16ths of Inches,
Weight Per Dozen $1\frac{1}{2}$ Lbs. \$4.20
One-half Dozen in a Box.



- Per Dozen
No. 760—(63 $\frac{1}{2}$) $\frac{3}{4}$ in. Wide,
Square Joint, Edge Plates,
Marked 8ths, 10ths and
16ths of Inches, Weight Per
Dozen $1\frac{1}{4}$ Lbs. \$6.00
One Dozen in a Box.



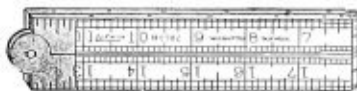
- Half Brass Bound Per Dozen
No. 771—(84) 1 in. Wide, Square
Joint, Half Bound, Marked
8ths, 10ths, 12ths and 16ths
of Inches, with Drafting
Scale, Weight Per Dozen 2
Lbs. \$9.00
One-half Dozen in a Box.



- Brass Bound Per Dozen
No. 781—(62) 1 in. Wide, Square
Joint, Full Bound, Marked
8ths, 10ths, 12ths and 16ths
of Inches, with Drafting
Scale, Weight Per Dozen
 $2\frac{1}{2}$ Lbs. \$11.40
No. 780— $\frac{3}{4}$ in. Wide, Square
Joint, Full Bound, Marked
8ths, 10ths, 12ths and 16ths
of Inches, Weight Per Dozen
2 Lbs. 11.40
One-half Dozen in a Box.

RULES

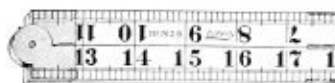
TWO FOOT, FOUR FOLD



- Wide Brass Bound Per Dozen
No. 782—(72 $\frac{1}{2}$) $1\frac{1}{4}$ in. Wide,
Square Joint, Full Bound,
Marked 8ths, 10ths and 16ths
of Inches, Weight Per Dozen
3 Lbs. \$13.80
One Dozen in a Box.

ARCHITECTS TWO FOOT,
FOUR FOLD

- Beveled Faces Per Dozen
No. 861A—(53 $\frac{1}{2}$) 1 in. Wide,
Arch Joint, Edge Plates,
Marked 8ths, 10ths, 12ths
and 16ths of Inches, with
Drafting Scale, Weight Per
Dozen $1\frac{1}{2}$ Lbs. \$12.00
One-half Dozen in a Box.

BLINDMANS
TWO FOOT, FOUR FOLD

- Extra Large Figures Per Dozen
No. 762B—(7) $1\frac{3}{8}$ in. Wide,
Square Joint, Edge Plates,
Weight Per Dozen 2 Lbs. \$12.00
These Rules are marked with large
and distinct figures and are especially
adapted for use in poorly lighted places,
or by persons with poor eyesight.
One-half Dozen in a Box.

THREE FOOT, FOUR FOLD



- Per Dozen
No. 3851—(66 $\frac{1}{2}$) 1 in. Wide,
Arch Joint, Middle Plates,
Marked 8ths and 16ths of
Inches, Weight Per Dozen
2 Lbs. \$9.00
One-half Dozen in a Box.



- Brass Bound Per Dozen
No. 3881—(66 $\frac{1}{2}$) 1 in. Wide,
Arch Joint, Full Bound,
Marked 8ths and 16ths of
Inches, Weight Per Dozen
 $3\frac{1}{4}$ Lbs. \$22.20
One-half Dozen in a Box.

FOUR FOOT, FOUR FOLD



- Brass Bound Per Dozen
No. 4883—(94) $1\frac{1}{2}$ in. Wide,
Arch Joint, Full Bound,
Marked 8ths and 16ths of
Inches, Weight Per Dozen
 $5\frac{1}{2}$ Lbs. \$40.20
One-half Dozen in a Box.

RULES

TWO FOOT, TWO FOLD



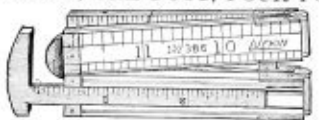
- For Manual Training Work Per Dozen
No. 702—(18) $1\frac{3}{8}$ in. Wide,
Square Joint, Marked 8ths
and 16ths, Weight Per Dozen
2 Lbs. \$6.00

CALIPER, SIX INCH, TWO FOLD



- Per Dozen
No. 171—(36) $\frac{5}{8}$ in. Wide,
Square Joint, Marked 8ths,
10ths, 12ths and 16ths of
Inches, Left Hand Caliper
Graduated in 16ths, Weight
Per Dozen 1 Lb. \$7.20

CALIPER, ONE FOOT, FOUR FOLD



- Per Dozen
No. 386—(32) 1 in. Wide, Arch
Joint, Edge Plates, Marked
8ths, 10ths, 12ths and 16ths
of Inches, Left Hand Caliper
Graduated in 16ths, Weight
Per Dozen $1\frac{1}{4}$ Lbs. \$10.80
No. 388—(32 $\frac{1}{2}$) Full Bound. 16.20

CALIPER, ONE FOOT, TWO FOLD



- Per Dozen
No. 372—(36 $\frac{1}{2}$) $1\frac{3}{8}$ in. Wide,
Square Joint, Marked 8ths,
10ths, 12ths and 16ths of
Inches, Left Hand Caliper
Graduated in 16ths, Weight
Per Dozen $1\frac{3}{4}$ Lbs. \$10.20

CALIPER, TWO FOOT, FOUR FOLD



- Brass Bound Per Dozen
No. 781C—(62C) 1 in. Wide,
Square Joint, Marked 8ths,
10ths, 12ths and 16ths of
Inches, Caliper 16ths and
32nds inch, Weight Per Dozen
 $2\frac{3}{4}$ Lbs. \$21.00
All Above, One-half Dozen in a Box.

COMBINATION TWO FOOT, FOUR
FOLD

- Rule, Level and Protractor Each
No. 863L— $1\frac{1}{2}$ in. Wide, Box-
wood, Brass Trimmings,
Edge Plates, Marked One
Side Inches and 8ths, Other
Side Inches and 16ths, with
Architects' Drafting Scale,
Level and Protractor, Wt.
Each 4 Oz. \$2.00
One in a Box.

ZIG ZAG RULES

STANLEY



Concealed Joint, $\frac{5}{8}$ in. Wide, Flexible Hardwood, Marked 16ths of inches, Brass Plated Steel Joints and Tips, Patent Direction Arrows, Patent Strike Plates, 6 in. Folds.

Yellow Enameled

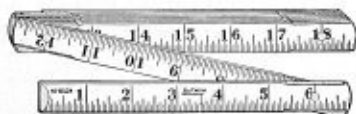
| Nos. | 03 | 04 | 05 | 06 | 08 |
|--------------------|--------|------|------|------|-------|
| Length, Feet | 3 | 4 | 5 | 6 | 8 |
| Weight Dozen, Lbs. | 1½ | 2 | 2¾ | 3¼ | 4¼ |
| Per Dozen | \$4.20 | 5.40 | 6.60 | 8.40 | 10.80 |

White Enameled

| Nos. | 103 | 104 | 105 | 106 | 108 |
|--------------------|--------|------|------|------|-------|
| Length, Feet | 3 | 4 | 5 | 6 | 8 |
| Weight Dozen, Lbs. | 1½ | 2 | 2¾ | 3¼ | 4¼ |
| Per Dozen | \$4.80 | 6.00 | 7.20 | 9.00 | 11.40 |

One-half Dozen in a Box.

LUFKIN RIVET JOINTS



Spring Joint, $\frac{5}{8}$ in. Wide, Flexible Hardwood, Marked 16ths of inches, Brass Plated Joints and Tips, 6 in. Folds.

Yellow Enameled

| Nos. | 8523 | 8524 | 8525 | 8526 | 8528 |
|--------------------|--------|------|------|------|------|
| Length, Feet | 3 | 4 | 5 | 6 | 8 |
| Weight Dozen, Lbs. | 1½ | 2 | 2¾ | 3 | 4 |
| Per Dozen | \$3.60 | 4.80 | 6.00 | 7.20 | 9.60 |

White Enameled

| Nos. | 8623 | 8624 | 8625 | 8626 | 8628 |
|--------------------|--------|------|------|------|-------|
| Length, Feet | 3 | 4 | 5 | 6 | 8 |
| Weight Dozen, Lbs. | 1½ | 2 | 2¾ | 3 | 4 |
| Per Dozen | \$4.20 | 5.40 | 6.60 | 7.80 | 10.20 |

3 ft., One Dozen; Other Lengths, One-half Dozen in a Box.

VICTOR NARROW



Concealed Joint, $\frac{1}{2}$ in. Wide, Flexible Hardwood Marked 16ths of inches, Steel Joints and Tips, 4 in. Fold.

Yellow Enameled

| Nos. | 343 | 344 |
|------------------------|--------|------|
| Length, Feet | 3 | 4 |
| Weight Per Dozen, Lbs. | 1¼ | 1½ |
| Per Dozen | \$4.20 | 5.40 |

White Enameled

| Nos. | 643 | 644 |
|------------------------|--------|------|
| Length, Feet | 3 | 4 |
| Weight Per Dozen, Lbs. | 1¼ | 1½ |
| Per Dozen | \$4.80 | 6.00 |

One Dozen in a Box.

STANLEY HOOK



With Direction Arrows and Strike Plate

Concealed Joints, $\frac{5}{8}$ in. Wide, Flexible Hardwood, Marked 16ths of inches, Brass Plated Joints and Tips, 6 in. Folds.

Yellow Enameled

| Nos. | H05 | H06 |
|------------------------|--------|------|
| Length, Feet | 5 | 6 |
| Weight Per Dozen, Lbs. | 3 | 3¾ |
| Per Dozen | \$7.20 | 9.00 |

White Enameled

| Nos. | H105 | H106 |
|--------------|--------|------|
| Length, Feet | 5 | 6 |
| Per Dozen | \$7.80 | 9.60 |

One-half Dozen in a Box.

ZIG ZAG RULES

LUFKIN HOOK



Showing Open Hook.

Without Strike Plates

Riveted Joint, $\frac{5}{8}$ in. Wide, Flexible Hardwood, Brass Plated Trimmings, Marked Consecutive inches on Both Sides.

Yellow Enameled

| Nos. | H8524 | H8525 | H8526 |
|------------------------|--------|-------|-------|
| Length, Feet | 2 | 2½ | 3 |
| Weight Per Dozen, Lbs. | 2 | 2½ | 3 |
| Per Dozen | \$5.40 | 6.60 | 7.80 |

White Enameled

| Nos. | H8624 | H8625 | H8626 |
|------------------------|--------|-------|-------|
| Length, Feet | 4 | 5 | 6 |
| Weight Per Dozen, Lbs. | 2 | 2½ | 3 |
| Per Dozen | \$6.00 | 7.20 | 8.40 |

One-half Dozen in a Box.

MASTER SLIDE RULES

"INTERLOX" DIRECT READING



For Inside and Outside Measurements

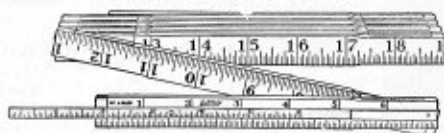
Selected Boxwood, Finely Finished, $\frac{1}{2}$ in. Wide, Solid Brass Trimmings, Concealed Springs which hold Rule Rigid when Extended, Length of Joints 8 in., Side used for Inside Measurements Marked "Inside" and Graduated for Inside Measuring. Reverse Side used like Ordinary Rule Marked "Outside" and Graduated in 8ths and 16ths inches. When Closed All Joints are Locked Together with Interlocking Device Except First Joint, which when Pulled Out, Releases Second and so on.

| Nos. | 3MS | 4MS | 5MS | 6MS | 8MS |
|--------------------|--------|------|-------|-------|-------|
| Length, Feet | 3 | 4 | 5 | 6 | 8 |
| No. Joints | 6 | 8 | 10 | 12 | 16 |
| Weight Dozen, Lbs. | 2½ | 3 | 3½ | 4 | 5 |
| Per Dozen | \$7.20 | 9.60 | 12.00 | 14.40 | 19.20 |

One-half Dozen in a Box.

EXTENSION RULES

LUFKIN SPRING JOINT

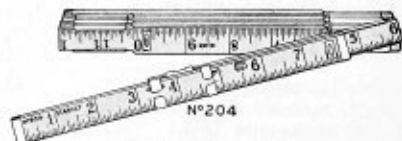


With Slide Extending 6 inches

Particularly Adapted for Taking Inside Measurements. Genuine Boxwood, Extra Heavy, Securely Fastened at Joints, Graduated Both Sides in Consecutive Inches and 16ths, Clear and Distinct Figures and Lines.

No. X8536—6 ft. Long, Weight Dozen 4¼ Lbs. \$14.40
One-half Dozen in a Box.

STANLEY

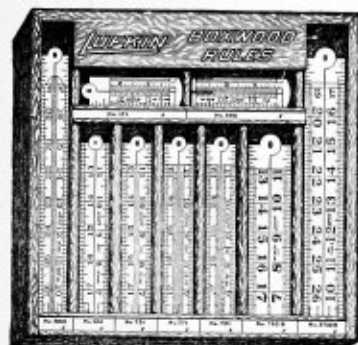


Yellow Enameled

| Nos. | 204 | 206 |
|------------------------|--------|-------|
| Length, Feet | 4 | 6 |
| Weight Per Dozen, Lbs. | 3 | 4 |
| Per Dozen | \$8.40 | 12.00 |

RULE DISPLAY TRAYS

LUFKIN



Standard Boxwood Rules

The smallest well assorted stock any dealer can carry.

Keeps the stock in good order and effectively displayed in small space.

Put up in handsome oak display tray which will set flat or at any angle in showcase or window.

Each

No. 8 Assortment—Contains 2 1/4 Dozen Popular Boxwood Rules \$25.50

ALUMINUM RULES

STANLEY



Rivet Joint, 6 in. Folds, 1/2 in. Wide

Graduated 16ths inches on Both Sides, Black Finish, Raised White Figures and Graduations.

| Nos. | 424 | 425 | 426 |
|------------------|---------|-------|-------|
| Length, Feet | 4 | 5 | 6 |
| Weight Each, Oz. | 5 1/4 | 6 3/4 | 8 |
| Per Dozen | \$16.20 | 20.40 | 24.00 |

The Aluminum Rule occupies a position between folding wood and steel rules, both as regards weight and durability. It is especially popular in the building trades, and in mills, shops, etc., where folding wood rules are often broken.

One-half Dozen in a Box.



Aluminum Finish, Black Figures and Sunken Graduations

Rivet Joints, 1/8 in. Wide, Hardened Aluminum, Marked 16ths of inches, Brass Joints, 6 in. Folds, Rust-proof throughout.

| Nos. | 1203 | 1204 | 1205 | 1206 |
|-----------------|---------|-------|-------|-------|
| Length, Feet | 3 | 4 | 5 | 6 |
| Wt. Dozen, Lbs. | 2 3/4 | 3 | 3 3/4 | 4 |
| Per Dozen | \$12.60 | 16.80 | 21.00 | 25.20 |

These rules are made of special hardness to give the rule flexibility and to hold its shape, light weight and durable.

One-half Dozen in a Box.

LUFKIN HOOK



Aluminum Finish, Black Figures and Sunken Graduations
Solid Brass Rivet Joint, 1/8 in. Wide, Hardened Aluminum, Marked 16ths inches on Both Sides, 6 in. Folds, Rust-proof throughout.

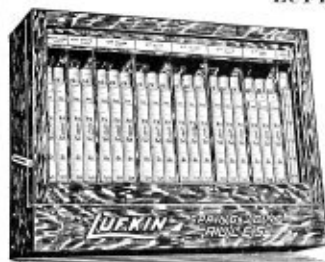
| Nos. | H1204 | H1205 | H1206 |
|--------------------|---------|-------|-------|
| Length, Feet | 4 | 5 | 6 |
| Weight Dozen, Lbs. | 3 | 3 3/4 | 4 |
| Per Dozen | \$18.00 | 22.20 | 26.40 |

A small substantial steel hook is fitted to one end, so attached that it readily folds up and remains flush with edge of rule. Zero point falls at inside of hook when open, at extreme end of rule, same as other rules, when hook is closed.

One-half Dozen in a Box.

RULE DISPLAY CASES

LUFKIN



A Popular Display Case of Spring Joint Rules

Case made of quarter sawed oak, beautifully finished, and fitted with heavy glass front which can be quickly opened when making a sale.

Length of each rule is shown directly over the rule on celluloid strip, and only the most popular lengths of yellow

and white rules are included. Space is provided to insert retail price of each rule.

Per Assortment

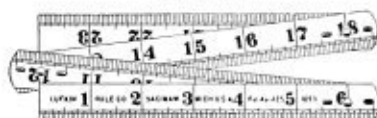
No. 4 Assortment—Consists of 39 Rules, Four Styles of Most Popular Sellers, Put up in a 15 3/4 x 11 3/4 in. Handsome Quarter Sawed Oak Display Case, with Glass Front, Weight Assortment 21 Lbs. \$27.00

Contents of Display Case

| Nos. | Enamel | Nos. | Enamel |
|------------------------|--------|-------------------------------------|--------|
| 4—8524, 4 feet, Yellow | | 4—8614, 5 feet, White | |
| 6—8525, 5 feet, Yellow | | 6—8615, 5 feet, White | |
| 6—8526, 6 feet, Yellow | | 6—8616, 6 feet, White | |
| 6—524, 4 feet, Yellow | | 1—X8536, 6 feet, Boxwood Extension. | |

FOLDING STEEL RULES

LUFKIN



With Patent Stop Joints

Made of Tempered Steel, 3/4 in. Wide. Surface of Rule is Bright with Sunken Figures and Lines which Show up Clear and Distinct. Convenient, Compact and Practically Indestructible. Marked both sides 16ths inches.

| Nos. | 1172 | 1173 | 1174 | 1175 | 1176 | 1178 |
|-----------------|--------|-------|-------|------|-------|------|
| Length, Feet | 2 | 3 | 4 | 5 | 6 | 8 |
| Wt. Dozen, Lbs. | 1 3/4 | 2 1/2 | 3 3/4 | 5 | 6 1/2 | 8 |
| Each | \$1.30 | 1.95 | 2.60 | 3.25 | 3.90 | 5.40 |

Nos. 1172 and 1173, Twelve; Nos. 1174 to 1178, Six in a Box.

LUFKIN FLEXIBLE POCKET



Nubian Finish, with Stop Joints

High Grade Popular Rules, of Flexible Spring Steel. Stop Joints hold the Sections True when Open. Over the "Nubian" (black) Finish Background, the Raised Figures and Markings, which are in the Natural Steel Color, Show up Clearly. Rules Furnished with or without Metal Bound Leather Cases. Marked inches and 16ths, both sides.

| Nos. | 1132 | 1143 | *4642 |
|-----------------------|--------|------|-------|
| Length, Feet | 2 | 3 | 2 |
| Width, Inches | 3/4 | 3/4 | 1 1/2 |
| Length Joints, Inches | 3 | 4 | 6 |
| Weight Dozen, Oz. | 7 | 16 | 16 |
| Each | \$1.10 | 1.65 | 1.40 |
| Case Extra | .10 | .10 | .15 |

*No. 4642 is furnished with Sunken Figures.

Twelve in a Box.

LUFKIN HANDY



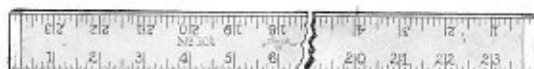
No. 041—1 ft. Long. 3/8 in. Wide, 28 Gauge Finest Quality Spring Steel, Graduated Inches and 16ths, Put up in a Metal Bound Leather Case. Weight Dozen 1/2 Lb. \$2.40

Will bend to a 3 in. circle. Very neat and compact.

One Dozen in a Display Carton.

SHRINKAGE RULES

STANLEY



For Pattern Makers

Boxwood Brass Tips, Marked 8ths, 10ths, 12ths and 16ths of Inches, 1 1/2 in. Wide.

| Nos. | 30 1/4 C | 30 1/4 E | 30 1/4 F | 30 1/4 G |
|------------------------|----------|----------|----------|----------|
| Length, Inches | 24 1/8 | 24 1/4 | 24 3/8 | 24 1/2 |
| Shrinkage Per Ft., In. | 1/10 | 1/8 | 3/16 | 1/4 |
| Per Dozen | \$19.80 | 19.80 | 19.80 | 19.80 |

Weight Per Dozen 2 Pounds.

One-half Dozen in a Box.

BROWN & SHARPE



Spring Tempered Steel

Graduated in 8ths, 16ths, 32nds and 64ths Inches.

| Nos. | 340 | 340A | 341 | 341A |
|------------------------|--------|--------|--------|--------|
| Length, Inches | 12 1/8 | 24 1/8 | 12 1/4 | 24 1/4 |
| Shrinkage Per Ft., In. | 1/10 | 1/10 | 1/8 | 1/8 |
| Weight Each, Oz. | 2 | 5 | 2 | 5 |
| Each | \$2.10 | 4.25 | 2.10 | 4.25 |
| Nos. | 342 | 342A | 343 | 343A |
| Length, Inches | 12 3/8 | 24 3/8 | 12 1/2 | 24 1/2 |
| Shrinkage Per Ft., In. | 1/10 | 1/10 | 1/8 | 1/8 |
| Weight Each, Oz. | 2 | 5 | 2 | 5 |
| Each | \$2.10 | 4.25 | 2.10 | 4.25 |

Six in a Box.

LUFKIN STEEL



Machine Divided

Graduated in 8ths, 16ths, 32nds and 64ths Inches.

For Pattern Makers, Foundry Workers, and Others. Made of Spring Tempered Steel, Approximately 3/4 in. Thick. These Rules are the Highest Grade, Finely Graduated and Guaranteed Accurate. Lines and Figures are Cut Into Steel and Show Up Clear and Distinct.

| Nos. | 83C-6 | 83C-12 | 83C-24 | 83E-6 | 83E-12 | 83E-24 |
|-------------------|--------|--------|--------|-------|--------|--------|
| Length, Inches | 6 | 12 | 24 | 6 | 12 | 24 |
| Shrink. Foot, In. | 1/10 | 1/10 | 1/10 | 1/8 | 1/8 | 1/8 |
| Each | \$1.00 | 2.10 | 4.25 | 1.00 | 2.10 | 4.25 |
| Nos. | 83F-6 | 83F-12 | 83F-24 | 83G-6 | 83G-12 | 83G-24 |
| Length, Inches | 6 | 12 | 24 | 6 | 12 | 24 |
| Shrink. Foot, In. | 1/10 | 1/10 | 1/10 | 1/4 | 1/4 | 1/4 |
| Each | \$1.00 | 2.10 | 4.25 | 1.00 | 2.10 | 4.25 |
| Nos. | 83H-6 | 83H-12 | 83H-24 | 83K-6 | 83K-12 | 83K-24 |
| Length, Inches | 6 | 12 | 24 | 6 | 12 | 24 |
| Shrink. Foot, In. | 1/10 | 1/10 | 1/10 | 3/8 | 3/8 | 3/8 |
| Each | \$1.00 | 2.10 | 4.25 | 1.00 | 2.10 | 4.25 |
| Nos. | 83R-6 | 83R-12 | 83R-24 | 83T-6 | 83T-12 | 83T-24 |
| Length, Inches | 6 | 12 | 24 | 6 | 12 | 24 |
| Shrink. Foot, In. | 1/10 | 1/10 | 1/10 | 1/2 | 1/2 | 1/2 |
| Each | \$1.00 | 2.10 | 4.25 | 1.00 | 2.10 | 4.25 |

BLACKSMITHS RULES

STARRETT



Folding Steel

Spring Tempered Steel, Graduated First Two Inches in 32nds, Remainder in 16ths on One Side and 8ths Inches on the Other, Lock Joint.

No. 460—2 ft. Long, 3/4 in. Wide, 2 Fold.....\$1.25

Folding Brass with Stop Joint

No. 462—2 ft. Long, 3/4 in. Wide, 2 Fold.....\$1.50
Six in a Box.

YARD STICKS

STANLEY



With Brass Tips

Per Dozen

No. 41—Maple, 1 in. Wide, Marked 8ths of Inches on One Side, Fractions of Yards on Other Side.
Weight Per Dozen 2 1/2 Lbs.....\$6.00

No. 50—Hickory, 3/4 in. Wide, Marked 8ths of Inches on One Side, Fractions of Yards on Other Side.
Weight Per Dozen 2 1/4 Lbs.....8.40

One Dozen in a Package.

WANTAGE RODS



Polished Maple

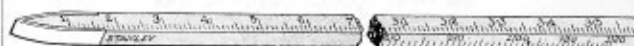
For Finding the Quantity Wanting in Barrels of Standard Sizes when Partly Filled.

Per Dozen

No. 44—Weight Per Dozen 3 Lbs.....\$9.00

Open Stock.

GAUGING RODS



Polished Maple, Brass Tip

For Finding the Capacity of Barrels or Casks Holding up to 120 Gallons.

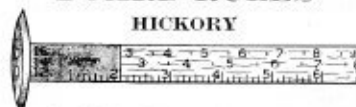
Per Dozen

No. 45—3 ft. Long, Weight Per Dozen 3 Lbs.....\$9.00

Open Stock.

BOARD RULES

HICKORY



Oval Head, Burnt Figures

Tempered Steel Head Brazed to Heavy Brass Shoulder, Three Tier, 3 ft. Long, Figured 30 inches.

Per Dozen

No. 2N—1 in. Wide, Measures Boards 8, 10, 12, 14,
16 and 18 ft.\$31.20

Open Stock.

LOG RULES

HICKORY



Square Head, Burnt Figures, Doyle Scale

Tempered Steel Head Brazed to Heavy Brass Shoulder, 3 1/2 ft. Long, Figured 36 inches.

Per Dozen

No. 15—Measures Logs 8, 10, 12, 14, 16, 18 and
20 ft.\$28.80

Open Stock.

LUMBER GAUGES

Brass, Nickel Plated

A Substantial Gauge for measuring Thickness of Lumber.

Per Dozen

No. 00—Measuring 3/8, 1/2,
5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2,
1 3/4 and 2 in. Thick-
ness\$7.20

One in a Box.



LUFKIN MEASURING TAPES

INSTANTANEOUS READING



This Illustration shows the Improved System of Marking All Lufkin Steel Tapes. Briefly described, it consists of repeating the Foot Mark at each inch in small, yet easily distinguishable figures. Thus the total reading is brought directly before the eye, eliminating all chance for a possible error.

Nubian Finish.

Nubian Finish designates the style of finish supplied on all Lufkin Etched Steel Tapes. The ribbon is given a dead black finish and the graduations and figures appear in the bright natural finish, producing a marked contrast which greatly increases the legibility of the tape. Nubian finish wears well, is rust resisting and improves the appearance of the tape.

RELIABLE STEEL

With Instantaneous Readings.

Metal Lined Cordovan-Brown Genuine Leather Case, Closely Hand Stitched, Metal Liners Heavily Brass Plated to Prevent Rust or Corrosion, Double Folding Flush Handle opened by pressing on opposite side. Handle has Extension Finger Hold which affords a firm grip when winding Tape. Nickel Plated Trimmings.

$\frac{3}{4}$ in. Nubian Finished Steel Tape.

Marked Feet, Inches and 8ths of Inches One Side Only.

| Nos. | 200 | 203 | 205 | 206 |
|------------------|--------|------|-------|-------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 9 | 13 | 18 | 21 |
| Each | \$5.45 | 8.60 | 12.50 | 15.00 |

RELIABLE JUNIOR STEEL

With Instantaneous Readings.

Metal Lined Finest Grade Cordovan-Brown Leather Case, Closely Hand Stitched, Metal Liners Heavily Brass Plated to Prevent Rust or Corrosion, Double Folding Handle opened by pressing on opposite side. Handle has Extension Finger Hold which affords a firm grip when winding in Tape. Nickel Plated Trimmings. $\frac{1}{4}$ in. Nubian Finished Steel Tape.

Marked Feet, Inches and 16ths of Inches One Side Only.

| Nos. | 100 | 103 | 105 | 106 |
|------------------|--------|------|-------|-------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 5 | 7 | 10 | 12 |
| Each | \$5.10 | 7.70 | 11.10 | 13.40 |

CHALLENGE STEEL

With Instantaneous Readings

Metal Lined Finest Grade Russet Leather Case, Folding Flush Handle opened by pressing Pin on opposite side, Nickel Plated Trimmings.

$\frac{3}{4}$ in. Nubian Finished Steel Tape.

Marked Feet, Inches and 8ths of Inches One Side Only.

| Nos. | 260 | 263 | 265 | 266 |
|------------------|--------|------|------|-------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 8 | 12 | 17 | 21 |
| Each | \$4.90 | 6.00 | 7.80 | 10.20 |

Marked Feet, 10ths and 100ths of Feet One Side Only.

| Nos. | 260D | 263D | 265D | 266D |
|--------------|--------|------|------|-------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Each | \$4.90 | 6.00 | 7.80 | 10.20 |

CHALLENGE JUNIOR STEEL

With Instantaneous Readings.

Metal Lined Hard Leather Case, Folding Flush Handle opened by pressing Pin on opposite side, Nickel Plated Trimmings.

$\frac{1}{4}$ in. Nubian Finished Steel Tape.

Marked Feet, Inches and 8ths on One Side Only.

| Nos. | 1260 | 1263 | 1265 | 1266 |
|------------------|--------|------|------|------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 4 | 6 | 9 | 12 |
| Each | \$4.70 | 5.70 | 7.50 | 9.60 |

All Above, One in a Box.

RIVAL STEEL

With Instantaneous Readings.

Nickel Plated Steel Case with Knurled Edges, Folding Flush Handle, opened by pressing Pin on opposite side.

$\frac{3}{4}$ in. Nubian Finish Steel Tape.

Marked Feet, Inches and 8ths of Inches, One Side Only.

| Nos. | 240 | 243 | 245 | 246 |
|------------------|--------|------|------|------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 8 | 11 | 16 | 19 |
| Each | \$4.45 | 5.40 | 7.20 | 9.25 |

STAINLESS STEEL

With Instantaneous Readings.

Metal Lined Hard Leather Hand Stitched Case, Folding Flush Handle, opened by pressing Pin on opposite side. Nickel Plated Trimmings.

$\frac{3}{4}$ in. Nubian Finished Steel Tape.

Rust Proof, Non-Corrosive.

Marked Feet, Inches and 8ths of Inches One Side Only.

| Nos. | S-260 | S-263 | S-265 | S-266 |
|------------------|--------|-------|-------|-------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 8 | 12 | 17 | 21 |
| Each | \$6.65 | 10.00 | 13.75 | 18.35 |

BANNER STEEL

With Instantaneous Readings.

Steel Case, Covered with Hand-some Mottled Black "Auto" Leather. Folding Flush Handle opened by pressing Side, Nickel Plated Trimmings.

$\frac{3}{4}$ in. Nubian Finished Steel Tape.

Marked Feet, Inches and 8ths of Inches One Side Only.

| Nos. | 550 | 553 | 555 | 556 |
|------------------|--------|------|------|------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 7 | 11 | 17 | 19 |
| Each | \$4.20 | 5.25 | 6.85 | 8.75 |

UNIVERSAL STEEL

With Instantaneous Readings.

Metaline, Mottled, Tan Colored Imitation Leather Case, Folding Flush Handle is opened by pressing Pin on opposite side. Case Edge-band and all Trimmings are Nickel Plated. Measurements Graduated Accurate.

$\frac{3}{4}$ in. Nubian Finish Steel Tape.

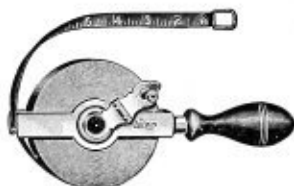
Marked Feet, Inches and 8ths of Inches One Side Only.

| Nos. | 560 | 563 | 565 | 566 |
|------------------|--------|------|------|------|
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 6 | 10 | 15 | 17 |
| Each | \$2.60 | 2.90 | 4.00 | 5.00 |

All Above, One in a Box.

LUFKIN MEASURING TAPES

METAL FRAME STEEL



With Instantaneous Readings

Nickel Plated Steel Frame, Polished Hardwood Handle, Folding Winding Handle.

$\frac{3}{8}$ in. Nubian Finished Steel Tape.

Marked Feet, Inches and 8ths of Inches, One Side Only

| | | | |
|-----------------------|--------|------|-------|
| Nos. | 283 | 285 | 286 |
| Length, Feet | 50 | 75 | 100 |
| Weight Each, Oz. | 18 | 23 | 27 |
| Each | \$7.15 | 9.85 | 12.25 |

These are favorite tapes in the oil fields and many places in general work. Frames take care of reasonable amount of dirt accumulation and afford the line a chance to dry. They also give extra winding leverage and a firm hold.

METALLIC



With Patent Threader

Hard Leather Case, Folding Handle, Nickel Plated Trimmings.

The Patent Threader is a device making the removal of an old and attaching of a new line most simple.
 $\frac{3}{8}$ in. Best Woven Linen Tape with Metallic Warp.

Marked Feet and Inches One Side Only

| | | | | |
|-----------------------|--------|------|------|------|
| Nos. | 500 | 503 | 505 | 506 |
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Each, Oz. | 9 | 13 | 21 | 24 |
| Each | \$3.10 | 4.50 | 5.60 | 7.00 |

JUNIOR METALLIC

With Patent Threader

Hard Leather Case, Double Folding Flush Handle Opened by Pressing Pin on Opposite Side, Nickel Plated Trimmings.

$\frac{3}{8}$ in. Best Woven Linen Tape with Metallic Warp.

Marked Feet, Inches and 8ths of Inches One Side Only

| | | |
|-----------------------|--------|------|
| Nos. | 660 | 663 |
| Length, Feet | 25 | 50 |
| Weight Each, Oz. | 4 | 6 |
| Each | \$3.25 | 4.10 |

All Above, One in a Box.

UNIVERSAL CORDED



Extra Grade

Metal Lined Hard
Leather Case, Hand
Stitched, Heavy Brass
Folding Handles, Brass
Trimmings.

$\frac{3}{8}$ in. Coated Linen
Cord Tape.

Marked Feet and Inches, One Side Only

| | | | | |
|-------------------------|-----------------|-----------------|-----------------|-------|
| Nos. | 940 | 943 | 945 | 946 |
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Dozen, Lbs. | 5 $\frac{1}{4}$ | 6 $\frac{1}{4}$ | 9 $\frac{1}{4}$ | 11 |
| Per Dozen | \$27.00 | 36.00 | 40.80 | 45.00 |

One-half Dozen in a Box.

UNIVERSAL COTTON

Brass Bound Ass Skin Case

Cream Enamelled Sides, Brass, Folding Handle, Brass Ring and Trimmings, $\frac{1}{2}$ in. Cotton Tape Water-proof Coated.



| | | | | |
|-------------------------|-----------------|------|-----------------|-------|
| Nos. | 710 | 713 | 715 | 716 |
| Length, Feet | 25 | 50 | 75 | 100 |
| Weight Dozen, Lbs. | 2 $\frac{3}{4}$ | 4 | 5 $\frac{1}{4}$ | 7 |
| Per Dozen | \$6.60 | 9.00 | 13.20 | 16.20 |

One-half Dozen in a Box.

STEEL POCKET

Nubian Finish

Round Edge Nickel Plated Brass Case, Spring Wind Center Stop, $\frac{1}{4}$ in. Nubian Finished Steel Tape Marked Inches and 16ths on One Side Only.

| | | | | |
|-------------------------|--------|-------|-----------------|-----------------|
| Nos. | 143 | 145 | 146 | 148 |
| Length, Feet | 3 | 5 | 6 | 8 |
| Weight Dozen, Lbs. | 1 | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |
| Per Dozen | \$9.00 | 11.40 | 12.00 | 18.00 |

One-half Dozen in a Box.

LINEN POCKET

Round Edge Nickel Plated Brass Case Spring Wind, $\frac{1}{4}$ in. Enamelled Linen Tape, Marked Inches and 8ths on One Side Only.

| | | | |
|----------------------|---------------|------|-----------------|
| Nos. | 173 | 175 | 176 |
| Length, Feet | 3 | 5 | 6 |
| Wt. Dozen, Lbs. | $\frac{3}{4}$ | 1 | 1 $\frac{1}{4}$ |
| Per Dozen | \$6.60 | 7.80 | 9.00 |

One-half Dozen in a Box.

UNIVERSAL POCKET

Good Quality Painted Tape

Nickeloid Case, Spring Wind, Center Stop.

Per Dozen
No. 165—5 ft. Long, Weight
Each $\frac{1}{2}$ Oz. \$2.00
One Dozen in a Display Box.



PRICE LIST OF FILES AND RASPS

Of the File Manufacturers' Association of the United States

ADOPTED LIST PRICE PER DOZEN EFFECTIVE ON AND AFTER

LIST OF APRIL 2, 1923

APRIL 2, 1923

PRICE PER DOZEN

| INCH | MILL | | | MILL 1 R. E. | | MILL 2 R. E. | | MILL BLUNT | | INCH | INCH | TAPERS | | SLIM TAPERS | EXTRA SLIM TAPERS | Double Extra Slim Tapers | HAND-SAW BLUNT | BANDSAW BLUNT & TAPER | | PITSAW | INCH |
|------|-------|--------|--------|--------------|--------|--------------|--------|------------|--------|------|-------|----------|----------|-------------|-------------------|--------------------------|----------------|-----------------------|------|--------|-------|
| | BAST. | 2d CUT | SMOOTH | BAST. | 2d CUT | BAST. | 2d CUT | BAST. | 2d CUT | | | SGL. CUT | DBL. CUT | | | | | REGULAR | SLIM | | |
| 3 | 3.00 | | | | | | | | | 3 | 3 | 2.10 | | 2.10 | | | | | | | 3 |
| 4 | 3.00 | 3.50 | | | | | | | | 4 | 3 1/2 | 2.10 | | 2.10 | | | | | | | 3 1/2 |
| 5 | 3.20 | 3.80 | | | | | | | | 5 | 4 | 2.20 | 2.90 | 2.20 | 2.20 | 2.20 | 2.60 | 2.90 | | 4.80 | 4 1/2 |
| 6 | 3.50 | 4.00 | 4.50 | 3.90 | 4.50 | 4.40 | 5.00 | 3.90 | 4.60 | 6 | 4 1/2 | 2.40 | 3.10 | 2.30 | 2.30 | 2.30 | 3.00 | 3.10 | | 5.40 | 5 |
| 7 | 3.90 | 4.60 | | 4.40 | 5.20 | 4.90 | | 4.30 | 4.90 | 7 | 5 | 2.60 | 3.50 | 2.50 | 2.50 | 2.50 | 3.40 | 3.50 | | 5.40 | 5 1/2 |
| 8 | 4.30 | 4.90 | 5.40 | 4.80 | 5.50 | 5.40 | 6.10 | 4.90 | 5.80 | 8 | 5 1/2 | 3.00 | | 2.90 | 2.90 | 2.90 | | | | 6.10 | 6 |
| 9 | 4.90 | 5.80 | | 5.50 | 6.50 | 6.10 | | | | 9 | 6 | 3.40 | 4.70 | 3.10 | 3.10 | 3.10 | 4.30 | 4.70 | 3.90 | 6.10 | 6 1/2 |
| 10 | 5.60 | 6.40 | 7.00 | 6.30 | 7.20 | 7.00 | 8.00 | 6.70 | 7.80 | 10 | 7 | 4.30 | 5.60 | 3.80 | 3.80 | 3.80 | 5.40 | 5.60 | | 7.00 | 7 |
| 12 | 7.50 | 8.60 | 9.40 | 8.40 | 9.70 | 9.40 | 10.80 | | | 12 | 8 | 5.40 | 6.70 | 4.50 | 4.50 | 4.50 | 6.60 | 6.70 | 5.30 | 7.50 | 8 |
| 14 | 10.70 | 12.20 | 13.10 | 12.00 | | | | | | 14 | 10 | 8.10 | | 6.40 | | | | 9.70 | | | 10 |
| 16 | 14.70 | 16.80 | 17.90 | | | | | | | 16 | 12 | 12.50 | | 9.50 | | | | | | | 12 |
| 18 | 20.20 | | | | | | | | | 18 | | | | | | | | | | | |

| INCH | FLAT | | | HAND | | | SQUARE | | | INCH | INCH | THREE SQUARE | | | HALF ROUND | | | ROUND | | | INCH |
|------|-------|--------|--------|-------|--------|--------|--------|--------|--------|------|------|--------------|--------|--------|------------|--------|--------|-------|--------|--------|------|
| | BAST. | 2d CUT | SMOOTH | BAST. | 2d CUT | SMOOTH | BAST. | 2d CUT | SMOOTH | | | BAST. | 2d CUT | SMOOTH | BAST. | 2d CUT | SMOOTH | BAST. | 2d CUT | SMOOTH | |
| 4 | 3.70 | 4.30 | 4.70 | 3.70 | 4.30 | 4.80 | 3.80 | 4.60 | 4.90 | 4 | 4 | 4.80 | 5.60 | 6.10 | 4.20 | 5.60 | 6.10 | 3.90 | 3.50 | 3.90 | 4 |
| 5 | 3.90 | 4.60 | 4.90 | 3.90 | 4.70 | 5.30 | 4.10 | 4.80 | 5.30 | 5 | 5 | 5.40 | 6.10 | 6.40 | 5.40 | 6.10 | 6.40 | 3.20 | 3.80 | 4.10 | 5 |
| 6 | 4.30 | 4.80 | 5.30 | 4.30 | 5.10 | 5.60 | 4.60 | 5.10 | 5.50 | 6 | 6 | 6.10 | 6.70 | 7.10 | 6.10 | 6.70 | 7.10 | 3.50 | 4.00 | 4.50 | 6 |
| 7 | 4.80 | 5.50 | 6.10 | 4.90 | 5.80 | 6.30 | 5.10 | 5.80 | 6.30 | 7 | 7 | 7.00 | 7.70 | 8.20 | 7.00 | 7.70 | 8.20 | 3.90 | 4.60 | 4.90 | 7 |
| 8 | 5.30 | 6.10 | 6.60 | 5.40 | 6.30 | 6.70 | 5.50 | 6.30 | 7.00 | 8 | 8 | 7.50 | 8.30 | 8.90 | 7.50 | 8.30 | 8.90 | 4.30 | 4.90 | 5.40 | 8 |
| 9 | 6.30 | 7.20 | 7.90 | 6.70 | 7.80 | 8.30 | | | | 9 | 9 | | | | | | | 4.90 | 5.80 | 6.30 | 9 |
| 10 | 7.00 | 8.10 | 8.70 | 7.50 | 8.70 | 9.40 | 7.40 | 8.50 | 9.10 | 10 | 10 | 9.10 | 10.10 | 10.70 | 9.10 | 10.10 | 10.70 | 5.60 | 6.40 | 7.00 | 10 |
| 12 | 9.70 | 11.00 | 12.10 | 10.70 | 12.30 | 13.50 | 10.20 | 11.50 | 12.80 | 12 | 12 | 11.80 | 13.00 | 13.90 | 11.80 | 13.00 | 13.90 | 7.50 | 8.60 | 9.40 | 12 |
| 14 | 13.30 | 15.30 | 16.70 | 15.00 | 17.00 | 18.20 | 13.90 | 16.10 | 17.50 | 14 | 14 | 15.50 | 17.00 | 18.30 | 15.50 | 17.00 | 18.30 | 10.70 | 12.20 | 13.10 | 14 |
| 16 | 17.80 | 20.10 | 22.30 | 20.10 | 22.80 | 24.20 | 18.70 | 21.20 | 23.30 | 16 | 16 | 20.60 | 22.50 | 24.20 | 20.60 | 22.50 | 24.20 | 14.70 | 16.80 | 17.90 | 16 |
| 18 | 23.90 | 26.80 | 29.20 | 26.80 | 29.90 | 31.50 | 25.10 | 28.20 | 30.40 | 18 | 18 | 27.50 | 29.90 | 32.00 | 27.50 | 29.90 | 32.00 | 20.20 | 22.70 | 24.30 | 18 |
| 20 | 31.50 | | | 35.10 | | | 32.80 | | | 20 | 20 | | | | | | | 27.40 | | | 20 |

| INCH | WARDING | | | KNIFE | | | INCH | INCH | PILLAR | | | SQUARE BLUNT | ROUND BLUNT | LEAD FLOAT and WOOD FILES | | INCH | INCH | HANDSAW BLUNT SLIM | DOUBLE ENDER | CANT SAW | INCH |
|------|---------|--------|--------|-------|--------|--------|------|------|--------|--------|--------|--------------|-------------|---------------------------|---------|------|------|--------------------|--------------|----------|------|
| | BAST. | 2d CUT | SMOOTH | BAST. | 2d CUT | SMOOTH | | | BAST. | 2d CUT | SMOOTH | | | Flat | Wd. Rd. | | | | | | |
| 4 | 4.00 | 4.80 | 5.40 | 5.40 | 6.10 | 6.40 | 4 | 6 | 4.30 | 5.10 | 5.60 | | | 4.80 | 7.00 | 6 | 4 | 2.50 | | | 4 |
| 5 | 4.50 | 5.30 | 5.80 | 6.10 | 6.70 | 7.10 | 5 | 8 | 5.40 | 6.30 | 6.70 | 7.40 | 5.60 | 6.30 | 8.50 | 8 | 5 | 3.10 | | 4.70 | 5 |
| 6 | 4.90 | 5.90 | 6.40 | 6.90 | 7.50 | 7.90 | 6 | 10 | 7.50 | 8.70 | 9.40 | 10.20 | 7.50 | 8.60 | 10.70 | 10 | 6 | 3.80 | | 5.40 | 6 |
| 8 | 6.40 | 7.50 | 8.20 | 8.50 | 9.10 | 9.50 | 8 | 12 | 10.70 | 12.30 | 13.50 | 13.90 | 10.70 | 11.80 | 14.10 | 12 | 7 | | 3.50 | 6.10 | 7 |
| 10 | 8.70 | 10.10 | 11.00 | 10.10 | 11.50 | 12.30 | 10 | 14 | 15.00 | | | 18.70 | 14.70 | 16.00 | 18.50 | 14 | 8 | 5.40 | 3.90 | 6.40 | 8 |
| 12 | | | | 13.70 | 15.20 | 16.10 | 12 | 16 | 20.10 | | | 25.10 | | 21.50 | 24.70 | 16 | 9 | | 4.40 | | 9 |
| | | | | | | | | 18 | | | | 32.80 | | | | 18 | 10 | | 4.90 | 8.70 | 10 |
| | | | | | | | | | | | | | | | | 12 | 12 | | 6.00 | 11.40 | 12 |

| INCH | CABINET FILES | CABINET RASPS | | HALF RD. WOOD RASPS | | FLAT WOOD RASPS | | HAND FINISHING | | INCH | INCH | SHOE RASPS | | PLANER KNIFE | CROSS CUT | SPECIAL CROSS CUT | INCH |
|------|---------------|---------------|--------|---------------------|--------|-----------------|--------|----------------|--------|------|------|------------|---------|--------------|-----------|-------------------|------|
| | | 2d CUT | SMOOTH | BAST. | SMOOTH | BAST. | SMOOTH | 2d CUT | SMOOTH | | | FLAT | Wd. Rd. | | | | |
| 6 | 8.10 | 10.10 | 11.70 | 8.10 | 10.10 | | | | | 6 | 6 | | | | 6.10 | 3.90 | 6 |
| 8 | 10.10 | 12.80 | 15.50 | 10.10 | 13.70 | 9.40 | 12.80 | | | 8 | 7 | | | | | 4.30 | 7 |
| 10 | 13.70 | 17.50 | 20.70 | 13.70 | 18.70 | 12.80 | 17.50 | | | 10 | 8 | 10.10 | 10.10 | 6.40 | 7.50 | 4.90 | 8 |
| 12 | 18.70 | 22.80 | 26.80 | 18.70 | 24.80 | 17.50 | 23.20 | 15.20 | 16.20 | 12 | 9 | 12.20 | 12.20 | | 8.50 | | 9 |
| 14 | 24.80 | 29.60 | 33.90 | 24.80 | 32.90 | 23.20 | 30.80 | 20.60 | 21.70 | 14 | 10 | 13.70 | 13.70 | 8.60 | 9.10 | 6.70 | 10 |
| 16 | | | | 32.90 | 43.60 | 30.80 | 40.90 | | | 16 | 12 | | | | 11.80 | | 12 |

| INCH | HORSE RASPS PLAIN | | | HORSE RASPS, TANGED | | | INCH | INCH | THE FOLLOWING ARE SPECIAL FILES | | | | | | | | | | INCH |
|------|-------------------|----------|----------|---------------------|-----------|---------------|------|------|---------------------------------------|--|--|--|--|--|--|--|--|-------|------|
| | 1/2 FILE | SLIM | 1/2 FILE | REGULAR | SLIM | THIN | | | | | | | | | | | | | |
| 12 | 12.80 | | | 16.80 | | 1.531"x .270" | 12 | 12 | Flat Aluminum Files... No. 75 | | | | | | | | | 11.80 | 12 |
| 13 | | | | 19.60 | | 1.594"x .275" | 13 | 13 | Flat Aluminum Files... No. 76 | | | | | | | | | 16.00 | 14 |
| 14 | 17.80 | | | 23.10 | 13" stock | 21.90 | 14 | 14 | Hand Brass Files... No. 162 | | | | | | | | | 15.00 | 12 |
| 15 | 20.90 | | | 27.30 | 13" stock | 25.20 | 15 | 15 | Flat Armory Cut Files... No. 204 | | | | | | | | | 13.50 | 12 |
| 16 | 24.40 | 14" Slt. | 21.50 | 32.20 | 14" stock | 29.70 | 16 | 16 | Last Makers Cabinet Rasps, Bastard | | | | | | | | | 19.50 | 10 |
| 18 | 33.90 | 15" Slt. | 25.90 | | | | 18 | 18 | Last Makers Cabinet Rasps, 2d Cut | | | | | | | | | 24.00 | 10 |
| 20 | | 16" Slt. | 32.90 | | | | 20 | 20 | Pattern Makers Cabinet Rasps, Bastard | | | | | | | | | 20.60 | 10 |
| | | | | | | | | | Pattern Makers Cabinet Rasps, 2d Cut | | | | | | | | | 25.20 | 10 |

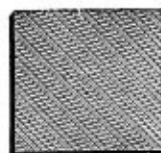
THE ABOVE LIST COMPRISES ALL OF THE KINDS, SIZES AND CUTS OF FILES THAT WILL BE REGULARLY CARRIED IN STOCK. ANYTHING DIFFERING FROM THESE FILES WILL BE CONSIDERED AS SPECIAL AND WILL NOT BE MANUFACTURED EXCEPT IN CASE OF URGENT NECESSITY AND WHEN MANUFACTURED PRICE WILL BE BASED STRICTLY UPON COST OF MATERIAL AND COST OF MANUFACTURE AT TIME GOODS ARE MADE.

FILES

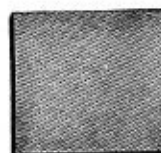
Illustrations of Cuts of Files



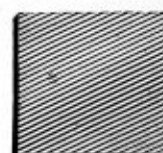
Bastard.



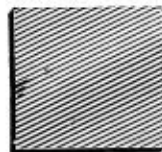
Second Cut.



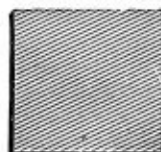
Smooth.



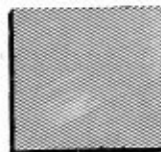
Float or Babbitt.



Mill Bastard.



Mill Second Cut.



Mill Smooth.



Wood Rasp.



Cabinet Rasp.

LIKE-HAND-CUT

A New Commercial File Different from Any Other on the Market

The new type Like-Hand Cut File, manufactured by Heller Bros., departs radically from the conventional design and construction of commercial files now commonly employed in large manufacturing organizations.

The teeth of these files are cut much deeper than the teeth of the ordinary file.

An unusually excellent alloy file steel of special analysis is used in the manufacture of these files.

The teeth are exceptionally sharp as well as strong and scientifically raked. The file is subjected to a hardening process which really hardens and toughens. Careful inspection and testing of these files assures a uniform product.

This new Heller file resembles and performs superior to the highest priced hand-cut files obtainable. Tests made show that it will cut faster than any commercial file on the market today, in some cases, two to five times faster than other well known makes. This is a saving in file cost, production and labor costs.

To substantiate our claims that the new Like-Hand Cut File has no equal in its class on the market today, we ask you to make a test, a test at our expense. Simply ask us for a Like-Hand Cut File, put it on your own work. Test it and retest it. Put it on the toughest, hardest materials in your shops.

PREMIER BRAND

This is a standard machine cut file which compares favorably with the regular commercial files on the market. While it in no way compares with the Like-Hand Cut File in cutting quality or speed in production, we do not hesitate to recommend it in comparison with any regular standard brand of file for ordinary work.

LATHE FILES



Made Specially for Lathe Work, Long Angle, Deep Cut, Safe Edges.

Made in 12 and 14 in. Lengths.

In addition to the above, we carry in stock, Bastard Files made specially for cutting brass. When Ordering, Specify Length and Shape Required.

RADIATOR FILES

We also have a Special File for Radiator Work, which has given the best of satisfaction. Upon receipt of request samples will be furnished for test.

FILE CARDS AND BRUSHES

IXL



Steel Wire Set in Leather

White Softwood Handle and Back.

No. 1—8½ in. Long, 1¼ in. Wide, Weight Per Dozen 2 Lbs. \$2.00

DISSTON



Metal Bound

Steel Handle, Wire Set in Leather, Hardwood Back.

No. 2—10 in. Long Over All, 2 in. Wide, Weight Per Dozen 3½ Lbs. \$10.00
One-half Dozen in a Box.

DISSTON



Steel Handle, Metal Bound

Wire Set in Leather, Hardened Steel Wire Set in Leather on One Side and Bristle Brush on Reverse Side.

No. 3—10 in. Long Over All, 2 in. Wide, Weight Per Dozen 3¼ Lbs. \$12.50
One-half Dozen in a Box.

FILES

LIKE-HAND-CUT AND PREMIER

For Description and Illustration of Cuts See Page 90

FLAT BASTARD



| | | | | | |
|--------------------|---------------|-------|-------|-------|----------------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Wt. Dozen, Lbs.... | $\frac{1}{2}$ | 1 | 2 | 4 | $7\frac{1}{2}$ |
| Per Dozen | \$3.70 | 3.90 | 4.30 | 5.30 | 7.00 |
| Length, Inches.... | 12 | 14 | 16 | 18 | 20 |
| Wt. Dozen, Lbs.... | 13 | 19 | 27 | 39 | 46 |
| Per Dozen | \$9.70 | 13.30 | 17.80 | 23.90 | 31.50 |

FLAT SECOND CUT

| | | | | | |
|-------------------------|---------------|-------|-------|-------|----------------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Wt. Dozen, Lbs.... | $\frac{1}{2}$ | 1 | 2 | 4 | $7\frac{1}{2}$ |
| Per Dozen | \$4.30 | 4.60 | 4.80 | 6.10 | 8.10 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Weight Per Dozen, Lbs.. | 13 | 19 | 27 | 39 | |
| Per Dozen | \$11.00 | 15.30 | 20.10 | 26.80 | |

FLAT SMOOTH

| | | | | | |
|--------------------|----------------|-------|-------|-------|--|
| Length, Inches.... | 4 | 5 | 6 | 8 | |
| Wt. Dozen, Lbs.... | $\frac{1}{2}$ | 1 | 2 | 4 | |
| Per Dozen | \$4.70 | 4.90 | 5.30 | 6.60 | |
| Length, Inches.... | 10 | 12 | 14 | 16 | |
| Wt. Dozen, Lbs.... | $7\frac{1}{2}$ | 13 | 19 | 27 | |
| Per Dozen | \$8.70 | 12.10 | 16.70 | 22.30 | |

One-half Dozen in a Box.

HAND BASTARD



| | | | | | |
|-------------------------|---------|-------|----------------|-------|------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Wt. Dozen, Lbs.... | 1 | 2 | $2\frac{1}{2}$ | 5 | 10 |
| Per Dozen | \$3.70 | 3.90 | 4.30 | 5.40 | 7.50 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Weight Per Dozen, Lbs.. | 15 | 22 | 36 | 48 | |
| Per Dozen | \$10.70 | 15.00 | 20.10 | 26.80 | |

HAND SECOND CUT

| | | | | | |
|--------------------|---------|-------|-------|-------|------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$4.30 | 4.70 | 5.10 | 6.30 | 8.70 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Per Dozen | \$12.30 | 17.00 | 22.80 | 29.90 | |

HAND SMOOTH

| | | | | | |
|--------------------|---------|-------|-------|-------|------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$4.80 | 5.30 | 5.60 | 6.70 | 9.40 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Per Dozen | \$13.50 | 18.20 | 24.20 | 31.50 | |

One-half Dozen in a Box.

HALF ROUND BASTARD



| | | | | | |
|-------------------------|---------------|-------|----------------|-------|------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Wt. Dozen, Lbs.... | $\frac{1}{2}$ | 1 | $1\frac{1}{2}$ | 5 | 8 |
| Per Dozen | \$4.80 | 5.40 | 6.10 | 7.50 | 9.10 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Weight Per Dozen, Lbs.. | 12 | 17 | 25 | 38 | |
| Per Dozen | \$11.80 | 15.50 | 20.60 | 27.50 | |

HALF ROUND SECOND CUT

| | | | | | |
|--------------------|---------|-------|-------|-------|-------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$5.60 | 6.10 | 6.70 | 8.30 | 10.10 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Per Dozen | \$13.00 | 17.00 | 22.50 | 29.90 | |

HALF ROUND SMOOTH

| | | | | | |
|--------------------|---------|-------|-------|-------|-------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$6.10 | 6.40 | 7.10 | 8.90 | 10.70 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Per Dozen | \$13.90 | 18.30 | 24.20 | 32.00 | |

One-half Dozen in a Box.

ROUND BASTARD



| | | | | | |
|-------------------------|---------------|---------------|---------------|---------------|----------------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Diameter, Inches.... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Wt. Dozen, Lbs.... | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 2 | $3\frac{1}{2}$ |
| Per Dozen | \$3.00 | 3.20 | 3.50 | 4.30 | 5.60 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Diameter, Inches.... | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | |
| Weight Per Dozen, Lbs.. | 7 | 13 | 21 | 27 | |
| Per Dozen | \$7.50 | 10.70 | 14.70 | 20.20 | |

ROUND SECOND CUT

| | | | | | |
|--------------------|--------|-------|-------|-------|------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$3.50 | 3.80 | 4.00 | 4.90 | 6.40 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Per Dozen | \$8.60 | 12.20 | 16.80 | 22.70 | |

ROUND SMOOTH

| | | | | | |
|--------------------|--------|-------|-------|-------|------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$3.90 | 4.10 | 4.50 | 5.40 | 7.00 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Per Dozen | \$9.40 | 13.10 | 17.90 | 24.30 | |

One-half Dozen in a Box.

SQUARE BASTARD



| | | | | | |
|-------------------------|---------------|---------------|---------------|----------------|---------------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Diameter, Inches.... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Wt. Dozen, Lbs.... | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | $2\frac{1}{2}$ | 4 |
| Per Dozen | \$3.80 | 4.10 | 4.60 | 5.50 | 7.40 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Diameter, Inches.... | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | |
| Weight Per Dozen, Lbs.. | 9 | 16 | 27 | 35 | |
| Per Dozen | \$10.20 | 13.90 | 18.70 | 25.10 | |

SQUARE SECOND CUT

| | | | | | |
|--------------------|---------|-------|-------|-------|------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$4.60 | 4.80 | 5.10 | 6.30 | 8.50 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Per Dozen | \$11.50 | 16.10 | 21.20 | 28.20 | |

SQUARE SMOOTH

| | | | | | |
|--------------------|---------|-------|-------|-------|------|
| Length, Inches.... | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$4.90 | 5.30 | 5.50 | 7.00 | 9.10 |
| Length, Inches.... | 12 | 14 | 16 | 18 | |
| Per Dozen | \$12.80 | 17.50 | 23.30 | 30.40 | |

One-half Dozen in a Box.

MILL BASTARD, SQUARE EDGE



| | | | | | |
|--------------------|---------------|------|----------------|-------|--|
| Length, Inches.... | 4 | 5 | 6 | 8 | |
| Wt. Dozen, Lbs.... | $\frac{1}{2}$ | 1 | $1\frac{1}{2}$ | 3 | |
| Per Dozen | \$3.00 | 3.20 | 3.50 | 4.30 | |
| Length, Inches.... | 10 | 12 | 14 | 16 | |
| Wt. Dozen, Lbs.... | 6 | 12 | 15 | 17 | |
| Per Dozen | \$5.60 | 7.50 | 10.70 | 14.70 | |

MILL SECOND CUT, SQUARE EDGE

| | | | | | |
|--------------------|--------|------|-------|-------|--|
| Length, Inches.... | 4 | 5 | 6 | 8 | |
| Per Dozen | \$3.50 | 3.80 | 4.00 | 4.90 | |
| Length, Inches.... | 10 | 12 | 14 | 16 | |
| Per Dozen | \$6.40 | 8.60 | 12.20 | 16.80 | |

MILL SMOOTH, SQUARE EDGE

| | | | | | |
|----------------|--------|------|------|------|-------|
| Length, In.... | 6 | 8 | 10 | 12 | 16 |
| Per Dozen.... | \$4.50 | 5.40 | 7.00 | 9.40 | 17.90 |

One Dozen in a Box.

MILL BASTARD, WITH ONE ROUND EDGE



| | | | | | |
|-----------------------|----------------|------|------|------|--|
| Length, Inches.... | 6 | 8 | 10 | 12 | |
| Weight Dozen, Lbs.... | $1\frac{1}{2}$ | 3 | 6 | 12 | |
| Per Dozen | \$3.90 | 4.80 | 6.30 | 8.40 | |

One Dozen in a Box.

FILES

LIKE-HAND-CUT AND PREMIER

For Description and Illustrations of Cuts See Page 90

MILL BASTARD, WITH TWO ROUND EDGES



| | | | | |
|---------------------|--------|------|------|------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Weight Dozen, Lbs. | 1½ | 3 | 6 | 12 |
| Per Dozen | \$4.40 | 5.40 | 7.00 | 9.40 |
| One Dozen in a Box. | | | | |

PILLAR BASTARD



| | | | | | | |
|--------------------|--------|------|------|------|------|-------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 | 12 |
| Weight Dozen, Lbs. | ¾ | 1½ | 2½ | 4 | 8 | 12 |
| Per Dozen | \$4.30 | 4.30 | 4.30 | 5.40 | 7.50 | 10.70 |

PILLAR SECOND CUT

| | | | | | | |
|----------------|--------|------|------|------|------|-------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 | 12 |
| Per Dozen | \$5.10 | 5.10 | 5.10 | 6.30 | 8.70 | 12.30 |

PILLAR SMOOTH

| | | | | | | |
|---------------------|--------|------|------|------|------|-------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 | 12 |
| Per Dozen | \$5.60 | 5.60 | 5.60 | 6.70 | 9.40 | 13.50 |
| One Dozen in a Box. | | | | | | |

WARDING BASTARD



| | | | | | |
|--------------------|--------|------|------|------|------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 |
| Weight Dozen, Lbs. | ½ | ¾ | 1 | 2 | 4 |
| Per Dozen | \$4.00 | 4.50 | 4.90 | 6.40 | 8.70 |

WARDING SECOND CUT

| | | | | | |
|----------------|--------|------|------|------|-------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$4.80 | 5.30 | 5.90 | 7.50 | 10.10 |

WARDING SMOOTH

| | | | | | |
|---------------------|--------|------|------|------|-------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 |
| Per Dozen | \$5.40 | 5.80 | 6.40 | 8.20 | 11.00 |
| One Dozen in a Box. | | | | | |

KNIFE BASTARD



| | | | | | | |
|--------------------|--------|------|------|------|-------|-------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 | 12 |
| Weight Dozen, Lbs. | ½ | 1 | 1¼ | 2 | 6 | 8 |
| Per Dozen | \$5.40 | 6.10 | 6.90 | 8.50 | 10.10 | 13.70 |

KNIFE SECOND CUT

| | | | | | | |
|----------------|--------|------|------|------|-------|-------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 | 12 |
| Per Dozen | \$6.10 | 6.70 | 7.50 | 9.10 | 11.50 | 15.20 |

KNIFE SMOOTH

| | | | | | | |
|---------------------|--------|------|------|------|-------|-------|
| Length, Inches | 4 | 5 | 6 | 8 | 10 | 12 |
| Per Dozen | \$6.40 | 7.10 | 7.90 | 9.50 | 12.30 | 16.10 |
| One Dozen in a Box. | | | | | | |

PLANER KNIFE



| | |
|--------------------------|--------|
| Length, Inches | 10 |
| Weight Per Dozen, Lbs. | 6 |
| Per Dozen | \$6.40 |
| One-half Dozen in a Box. | |

REGULAR TAPER SAW, SINGLE CUT



| | | | | | | |
|--------------------|--------|------|------|------|------|------|
| Length, Inches | 3 | 3½ | 4 | 4½ | 5 | 5½ |
| Weight Dozen, Lbs. | ¾ | 1½ | ¾ | 1½ | 1½ | 1½ |
| Per Dozen | \$2.10 | 2.10 | 2.20 | 2.40 | 2.60 | 3.00 |

| | | | | | |
|---------------------|--------|------|------|------|-------|
| Length, Inches | 6 | 7 | 8 | 10 | 12 |
| Weight Dozen, Lbs. | 2 | 3 | 4¼ | 7 | 12 |
| Per Dozen | \$3.40 | 4.30 | 5.40 | 8.10 | 12.50 |
| One Dozen in a Box. | | | | | |

SLIM TAPER SAW, SINGLE CUT



| | | | | | |
|------------------------|--------|------|------|------|------|
| Length, Inches | 3 | 3½ | 4 | 4½ | 5 |
| Weight Per Dozen, Lbs. | ¾ | ¾ | ¾ | 1½ | 5½ |
| Per Dozen | \$2.10 | 2.10 | 2.20 | 2.30 | 2.50 |

| | | | | |
|------------------------|--------|------|------|------|
| Length, Inches | 5½ | 6 | 7 | 8 |
| Weight Per Dozen, Lbs. | ¾ | 1¼ | 2 | 3 |
| Per Dozen | \$2.90 | 3.10 | 3.80 | 4.50 |
| One Dozen in a Box. | | | | |

EXTRA SLIM TAPER SAW, SINGLE CUT



| | | | | |
|--------------------|--------|------|------|------|
| Length, Inches | 4 | 4½ | 5 | 5½ |
| Weight Dozen, Lbs. | ¾ | ¾ | 1½ | 5½ |
| Per Dozen | \$2.20 | 2.30 | 2.50 | 2.90 |

| | | | |
|---------------------|--------|------|------|
| Length, Inches | 6 | 7 | 8 |
| Weight Dozen, Lbs. | ¾ | 1 | 1½ |
| Per Dozen | \$3.10 | 3.80 | 4.50 |
| One Dozen in a Box. | | | |

DOUBLE EXTRA SLIM TAPER SAW, SINGLE CUT



| | | | | | |
|-----------------------|--------|------|------|------|------|
| Length, Inches..... | 5 | 5½ | 6 | 7 | 8 |
| Weight Dozen, Lbs.... | ¾ | 1½ | 5/8 | ¾ | 1 |
| Per Dozen | \$2.50 | 2.90 | 3.10 | 3.80 | 4.50 |

DOUBLE END TAPER SAW



| | | | | |
|------------------------|--------|------|------|------|
| Length, Inches | 7 | 8 | 9 | 10 |
| Weight Per Dozen, Lbs. | 1 | 1½ | 2 | 2½ |
| Per Dozen | \$3.50 | 3.90 | 4.40 | 4.90 |
| One Dozen in a Box. | | | | |

REGULAR BLUNT BAND SAW



| | | | |
|------------------------|--------|------|------|
| Length, Inches | 6 | 8 | 10 |
| Weight Per Dozen, Lbs. | 1½ | 3 | 6 |
| Per Dozen | \$4.70 | 6.70 | 9.70 |
| One Dozen in a Box. | | | |

SLIM BLUNT BAND SAW



| | | | |
|------------------------|--------|------|------|
| Length, Inches | 6 | 8 | 10 |
| Weight Per Dozen, Lbs. | 1½ | 2½ | 5½ |
| Per Dozen | \$3.90 | 5.30 | 7.50 |
| One Dozen in a Box. | | | |

TAPER BAND SAW



| | | | |
|------------------------|--------|------|------|
| Length, Inches | 6 | 8 | 10 |
| Weight Per Dozen, Lbs. | 1½ | 2½ | 5½ |
| Per Dozen | \$4.70 | 6.70 | 9.70 |
| One Dozen in a Box. | | | |

SLIM TAPER BAND SAW



| | | |
|------------------------|--------|------|
| Length, Inches | 6 | 8 |
| Weight Per Dozen, Lbs. | 1½ | 3 |
| Per Dozen | \$3.90 | 5.30 |
| One Dozen in a Box. | | |

FILES

LIKE-HAND-CUT AND PREMIER

For Description and Illustrations of Cuts See Page 90

CANT OR LIGHTNING SAW



For Filing Cross Cut Saws.

| | | | | |
|---------------------|--------|------|------|-------|
| Length, Inches..... | 6 | 8 | 10 | 12 |
| Wt. Dozen, Lbs..... | 1½ | 3 | 5 | 8 |
| Per Dozen | \$5.40 | 6.40 | 8.70 | 11.40 |

One Dozen in a Box.

GREAT AMERICAN CROSS CUT



For Filing Cross Cut Saws.

| | | |
|----------------------------|--------|------|
| Length, Inches..... | 8 | 10 |
| Weight Per Dozen, Lbs..... | 3½ | 6 |
| Per Dozen | \$7.50 | 9.10 |

One Dozen in a Box.

HALF ROUND CABINET



Wider and thinner than Regular Half Round Files, used by Cabinet Makers and Woodworkers.

| | | | | |
|---------------------|---------|-------|-------|-------|
| Length, Inches..... | 8 | 10 | 12 | 14 |
| Wt. Dozen, Lbs..... | 5 | 9 | 14 | 16 |
| Per Dozen | \$10.10 | 13.70 | 18.70 | 24.80 |

One-half Dozen in a Box.

FLAT FLOAT OR BABBITT

For Lead, Babbitt, Solder, Aluminum and Wood

Used by Body Builders, Fender and Body Repairing, Pattern and Cabinet Makers.



| | | | | | |
|---------------------|--------|------|------|-------|-------|
| Length, Inches..... | 6 | 8 | 10 | 12 | 14 |
| Wt. Dozen, Lbs..... | 2 | 4 | 8 | 14 | 20 |
| Per Dozen | \$4.80 | 6.30 | 9.70 | 13.30 | 17.80 |

One-half Dozen in a Box.

AUGER BIT



Double End

Made in two sizes and styles. The 7 in. size is flat both

Made flat both ends and cut one end on the flat sides and the other on the edges.

| | |
|------------------------|--------|
| Length, Inches..... | 7 |
| Weight Dozen, Lbs..... | 1¾ |
| Per Dozen | \$6.50 |

One Dozen in a Box.

PLATINUM POINT



With Round Handle

For Cleaning Contact Points of Spark Plugs, Magnetos, Coils, etc.

| | |
|------------------------------|--------|
| Length Over All, Inches..... | 6¾ |
| Length Blade, Inches..... | 3¾ |
| Per Dozen | \$3.50 |

RASPS

FLAT WOOD



| | | | | | |
|------------------------|--------|-------|-------|-------|-------|
| Length, Inches..... | 8 | 10 | 12 | 14 | 16 |
| Weight Dozen, Lbs..... | 5 | 7 | 12 | 18 | 26 |
| Per Dozen | \$9.40 | 12.80 | 17.50 | 23.20 | 30.80 |

One-half Dozen in a Box.

HALF ROUND CABINET



Wider and thinner than Half Round Wood, used by Cabinet Makers and Woodworkers in general.

| | | | |
|----------------------------|---------|-------|-------|
| Length, Inches..... | 8 | 10 | 12 |
| Weight Per Dozen, Lbs..... | 4 | 6 | 10 |
| Per Dozen | \$12.00 | 17.50 | 22.80 |

One-half Dozen in a Box.

HALF ROUND WOOD



Used by Wheelwrights and Carriage Builders, and to some extent by Plumbers and Marble Workers.

| | | | | |
|------------------------|---------|-------|-------|-------|
| Length, Inches..... | 8 | 10 | 12 | 14 |
| Weight Dozen, Lbs..... | 4 | 6 | 10 | 14 |
| Per Dozen | \$10.10 | 13.70 | 18.70 | 24.80 |

One-half Dozen in a Box.

HALF ROUND SHOE



For Leather and other similar materials.

| | | | |
|----------------------------|--------|-------|-------|
| Length, Inches..... | 6 | 8 | 10 |
| Weight Per Dozen, Lbs..... | 3 | 5 | 10 |
| Per Dozen | \$8.10 | 10.10 | 13.70 |

One-half Dozen in a Box.

PLAIN HORSE



Coarse Rasp cut on one face, coarse double cut File cut on reverse face, coarse single cut on edges.

| | | | |
|----------------------------|---------|-------|-------|
| Length, Inches..... | 14 | 16 | 18 |
| Weight Per Dozen, Lbs..... | 20 | 29 | 42 |
| Per Dozen | \$17.80 | 24.40 | 32.90 |

One-half Dozen in a Box.

TANGED HORSE



| | | |
|----------------------------|---------|-------|
| Length, Inches..... | 14 | 16 |
| Weight Per Dozen, Lbs..... | 28 | 36 |
| Per Dozen | \$23.10 | 32.20 |

One-half Dozen in a Box.

HELLER HORSE TOOTH



Per Dozen

| | |
|--|---------|
| No. 3—Adjustable Float, 20 in. Long, Polished, Hard-wood Handle, Weight Each 1½ Lbs..... | \$36.00 |
|--|---------|

One in a Box.

HORSE TOOTH FLOATS

Per Dozen

| | |
|--|--------|
| No. 7—Rasp Cut, Will Fit No. 3 Horse Tooth Rasp..... | \$7.00 |
|--|--------|

One Dozen in a Box.

SWISS PATTERN FILES

AMERICAN SWISS FILE AND TOOL CO.

HAND



| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
|----------------------|--------|------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$2.80 | 3.40 | 3.90 | 4.25 | 6.00 | 7.70 |
| No. 2 Dozen | 2.80 | 3.40 | 3.90 | 4.35 | 6.10 | 7.80 |
| No. 4 Dozen | 3.10 | 3.55 | 4.40 | 4.70 | 6.45 | 8.75 |
| No. 6 Dozen | 3.45 | 3.90 | 5.15 | 5.25 | 7.50 | 9.80 |

PILLAR



| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
|----------------------|--------|------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$2.35 | 2.80 | 3.10 | 3.10 | 5.10 | 7.00 |
| No. 2 Dozen | 2.35 | 2.80 | 3.25 | 3.25 | 5.25 | 7.25 |
| No. 4 Dozen | 2.50 | 3.00 | 3.50 | 3.50 | 5.50 | 7.45 |
| No. 6 Dozen | 2.65 | 3.25 | 3.70 | 3.70 | 5.85 | 8.10 |

NARROW PILLAR



| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
|----------------------|--------|------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$2.35 | 2.80 | 3.10 | 3.10 | 4.10 | 5.80 |
| No. 2 Dozen | 2.35 | 2.80 | 3.20 | 3.20 | 4.30 | 5.55 |
| No. 4 Dozen | 2.50 | 3.00 | 3.50 | 3.50 | 4.45 | 5.90 |
| No. 6 Dozen | 2.65 | 3.25 | 3.70 | 3.70 | 5.30 | 7.45 |

EXTRA NARROW PILLAR



| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
|----------------------|--------|------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$2.35 | 2.80 | 3.10 | 3.10 | 4.15 | 5.35 |
| No. 2 Dozen | 2.35 | 2.80 | 3.20 | 3.20 | 4.30 | 5.55 |
| No. 4 Dozen | 2.50 | 3.00 | 3.50 | 3.50 | 4.45 | 5.90 |
| No. 6 Dozen | 2.65 | 3.25 | 3.85 | 3.85 | 4.75 | 6.40 |

SQUARE



| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
|----------------------|--------|------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$1.90 | 2.65 | 3.25 | 3.60 | 5.60 | 6.90 |
| No. 2 Dozen | 2.00 | 2.75 | 3.35 | 3.95 | 5.90 | 7.50 |
| No. 4 Dozen | 2.10 | 2.90 | 3.55 | 4.20 | 6.30 | 8.40 |
| No. 6 Dozen | 2.25 | 3.15 | 3.75 | 4.45 | 6.90 | 8.90 |

ROUND



| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
|----------------------|--------|------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$2.10 | 2.50 | 3.05 | 3.05 | 4.85 | 6.65 |
| No. 2 Dozen | 2.20 | 2.60 | 3.15 | 3.15 | 5.05 | 7.00 |
| No. 4 Dozen | 2.30 | 2.75 | 3.25 | 3.25 | 5.60 | 8.00 |
| No. 6 Dozen | 2.40 | 2.85 | 3.45 | 3.75 | 6.15 | 9.00 |

HALF ROUND



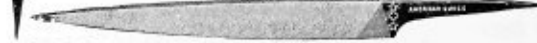
| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
|---------------------|--------|------|------|------|-------|-------|
| Nos. 00 and 0, Doz. | \$3.55 | 4.20 | 4.60 | 5.40 | 8.10 | 10.15 |
| No. 2 Doz. | 3.65 | 4.30 | 4.70 | 5.65 | 8.80 | 10.75 |
| No. 4 Doz. | 3.75 | 4.55 | 5.25 | 6.30 | 9.70 | 12.05 |
| No. 6 Doz. | 3.90 | 4.80 | 5.75 | 6.60 | 10.55 | 14.05 |

CROSSING



| Length, Inches | 3 | 4 | 5 | 6 | 8 | 10 |
|---------------------|--------|------|------|------|-------|-------|
| Nos. 00 and 0, Doz. | \$3.55 | 4.75 | 5.90 | 6.60 | 10.60 | 13.25 |
| No. 2 Doz. | 3.60 | 4.90 | 6.05 | 6.75 | 11.15 | 14.20 |
| No. 4 Doz. | 3.75 | 5.00 | 6.20 | 7.15 | 11.70 | 14.90 |
| No. 6 Doz. | 3.90 | 5.05 | 6.45 | 7.60 | 13.15 | 16.55 |

KNIFE



| Length, Inches | 3 | 4 | 5 | 6 | 8 |
|----------------------|--------|------|------|------|-------|
| Nos. 00 and 0, Dozen | \$3.55 | 4.60 | 5.70 | 5.75 | 8.60 |
| No. 2 Dozen | 3.70 | 4.75 | 6.05 | 6.00 | 8.85 |
| No. 4 Dozen | 3.85 | 4.90 | 6.35 | 6.25 | 9.65 |
| No. 6 Dozen | 4.00 | 5.20 | 6.60 | 6.95 | 11.15 |

BARRETTE



| Length, Inches | 3 | 4 | 5 | 6 | 8 |
|----------------------|--------|------|------|------|-------|
| Nos. 00 and 0, Dozen | \$4.05 | 5.95 | 6.75 | 7.80 | 10.00 |
| No. 2 Dozen | 4.40 | 6.25 | 7.10 | 8.30 | 10.10 |
| No. 4 Dozen | 4.90 | 6.75 | 7.75 | 8.75 | 10.75 |
| No. 6 Dozen | 5.25 | 7.00 | 8.00 | 9.00 | 11.30 |

EQUALLING



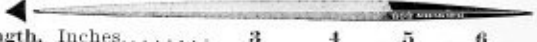
| Length, Inches | 3 | 4 | 5 | 6 | 8 |
|----------------------|--------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$2.60 | 3.00 | 3.75 | 4.35 | 5.55 |
| No. 2 Dozen | 2.80 | 3.30 | 3.90 | 4.60 | 5.75 |
| No. 4 Dozen | 3.00 | 3.45 | 4.30 | 4.95 | 6.35 |
| No. 6 Dozen | 3.20 | 3.75 | 4.75 | 5.45 | 7.45 |

WARDING



| Length, Inches | 3 | 4 | 5 | 6 | 8 |
|----------------------|--------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$2.40 | 3.05 | 3.60 | 4.15 | 5.90 |
| No. 2 Dozen | 2.60 | 3.30 | 3.80 | 4.25 | 6.00 |
| No. 4 Dozen | 2.75 | 3.60 | 4.05 | 4.80 | 6.55 |
| No. 6 Dozen | 2.90 | 3.90 | 4.45 | 5.15 | 7.50 |

THREE SQUARE



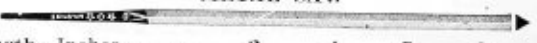
| Length, Inches | 3 | 4 | 5 | 6 | 8 |
|----------------------|--------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$2.75 | 3.30 | 3.90 | 4.20 | 7.00 |
| No. 2 Dozen | 2.85 | 3.45 | 4.05 | 4.45 | 7.15 |
| No. 4 Dozen | 3.00 | 3.60 | 4.35 | 4.95 | 7.60 |
| No. 6 Dozen | 3.15 | 3.80 | 4.75 | 5.50 | 8.30 |

CANT



| Length, Inches | 3 | 4 | 5 |
|----------------------|--------|------|------|
| Nos. 00 and 0, Dozen | \$4.05 | 5.95 | 6.75 |
| No. 2 Dozen | 4.40 | 6.25 | 7.10 |
| No. 4 Dozen | 4.90 | 6.75 | 7.75 |

METAL SAW



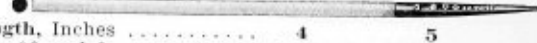
| Length, Inches | 3 | 4 | 5 | 6 | 8 |
|----------------|--------|------|------|------|------|
| No. 0 Dozen | \$2.85 | 3.45 | 3.90 | 4.40 | 5.90 |
| No. 2 Dozen | 2.95 | 3.55 | 4.00 | 4.50 | 6.00 |
| No. 4 Dozen | 3.05 | 3.90 | 4.35 | 5.00 | 6.50 |

CROCHET



| Length, Inches | 3 | 4 | 5 | 6 | 8 |
|----------------------|--------|------|------|------|------|
| Nos. 00 and 0, Dozen | \$3.65 | 4.30 | 4.85 | 6.25 | 8.90 |
| No. 2 Dozen | 3.90 | 4.40 | 5.00 | 6.35 | 9.00 |
| No. 4 Dozen | 4.15 | 4.60 | 5.15 | 6.55 | 9.20 |

ROUND STRAIGHT



| Length, Inches | 4 | 5 | 6 |
|----------------------|--------|------|------|
| Nos. 00 and 0, Dozen | \$2.55 | 2.90 | 3.10 |
| No. 2 Dozen | 2.55 | 2.90 | 3.10 |
| No. 4 Dozen | 2.55 | 2.90 | 3.10 |

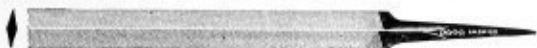
These Files are $\frac{1}{8}$ in. diameter. Prices of other diameters quoted on request.

All Above, One Dozen in a Box.

SWISS PATTERN FILES


AMERICAN SWISS FILE & TOOL CO.

SLITTING




| | | | |
|----------------------------|--------|------|------|
| Length, Inches | 4 | 5 | 6 |
| Nos. 00 and 0... Per Dozen | \$4.65 | 6.25 | 8.15 |
| No. 2... Per Dozen | 4.80 | 6.60 | 8.40 |
| No. 4... Per Dozen | 5.90 | 7.85 | 9.65 |

PIPPIN

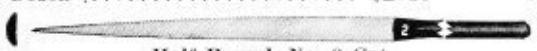


| | | | | | |
|--------------------|--------|------|------|------|-------|
| Length, Inches | 3 | 4 | 5 | 6 | 8 |
| No. 0... Per Dozen | \$3.50 | 4.40 | 5.20 | 6.25 | 9.60 |
| No. 2... Per Dozen | 3.60 | 4.70 | 5.55 | 6.50 | 9.75 |
| No. 4... Per Dozen | 3.80 | 5.00 | 6.10 | 6.80 | 10.20 |

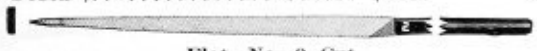
ROUND HANDLE NEEDLE




| | |
|------------------|-------------|
| Round, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |



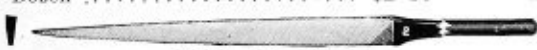
| | |
|-----------------------|-------------|
| Half Round, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |




| | |
|-----------------|-------------|
| Flat, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |




| | |
|-----------------|-------------|
| Oval, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |



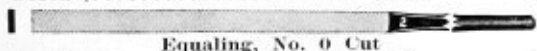
| | |
|------------------|-------------|
| Knife, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |




| | |
|-------------------|-------------|
| Square, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |




| | |
|-------------------------|-------------|
| Three Square, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |




| | |
|---------------------|-------------|
| Equaling, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |



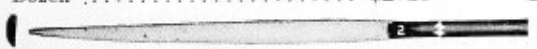
| | |
|---------------------|-------------|
| Barrette, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |



| | |
|------------------|-------------|
| Joint, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |



| | |
|---------------------|-------------|
| Slitting, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |




| | |
|--------------------|-------------|
| Marking, No. 0 Cut | |
| Length, Inches | 5 1/2 6 1/4 |
| Per Dozen | \$2.30 2.60 |

ROUND HANDLE NEEDLE, IN SETS

| | |
|----------------------------------|--------|
| 5 1/2 in. Assorted—Per Set of 12 | \$2.30 |
| 6 1/4 in. Assorted—Per Set of 12 | 2.60 |

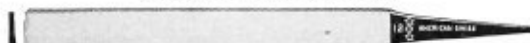
All Above, One

THIN ROUND EDGE JOINT




| | | | | | |
|--------------------|--------|------|------|------|------|
| Length, Inches | 3 | 4 | 5 | 6 | 8 |
| No. 0... Per Dozen | \$2.60 | 2.90 | 3.75 | 4.10 | 5.40 |
| No. 2... Per Dozen | 2.60 | 2.90 | 3.75 | 4.10 | 5.40 |

SQUARE EDGE JOINT

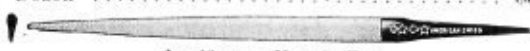


| | | | | | |
|--------------------|--------|------|------|------|------|
| Length, Inches | 3 | 4 | 5 | 6 | 8 |
| No. 0... Per Dozen | \$2.60 | 2.90 | 3.75 | 4.10 | 5.40 |
| No. 2... Per Dozen | 2.60 | 2.90 | 3.75 | 4.10 | 5.40 |

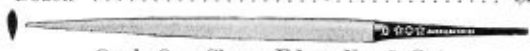
DIE SINKERS



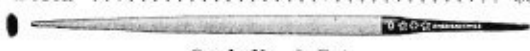
| | |
|-----------------|--------|
| Flat, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



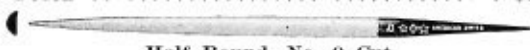
| | |
|---------------------|--------|
| Auriform, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



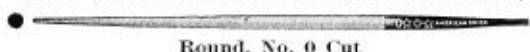
| | |
|---------------------------------|--------|
| Oval, One Sharp Edge, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |




| | |
|-----------------|--------|
| Oval, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



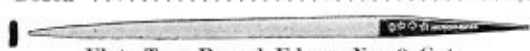
| | |
|-----------------------|--------|
| Half Round, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



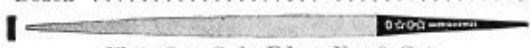
| | |
|------------------|--------|
| Round, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |




| | |
|------------------|--------|
| Knife, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



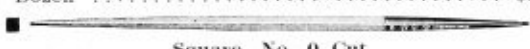
| | |
|----------------------------------|--------|
| Flat, Two Round Edges, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



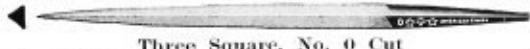
| | |
|--------------------------------|--------|
| Flat, One Safe Edge, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



| | |
|--------------------|--------|
| Lozenge, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



| | |
|-------------------|--------|
| Square, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |



| | |
|-------------------------|--------|
| Three Square, No. 0 Cut | |
| Length, Inches | 3 1/2 |
| Per Dozen | \$3.40 |





DIE SINKERS, IN SETS





| | |
|------------------------|--------|
| Assorted—Per Set of 12 | \$3.40 |
|------------------------|--------|

Note—Always state number of cut wanted.

Dozen in a Box.

SWISS PATTERN FILES **AMERICAN SWISS FILE AND TOOL CO.** **SQUARE HANDLE ESCAPEMENT**


| | |
|---|--------|
|  | |
| Round, No. 0 Cut | |
| Length, Inches | 5 1/2 |
| Per Dozen | \$2.60 |
|  | |
| Crossing, No. 0 Cut | |
| Length, Inches | 5 1/2 |
| Per Dozen | \$2.60 |
|  | |
| Barrette, No. 0 Cut | |
| Length, Inches | 5 1/2 |
| Per Dozen | \$2.60 |
|  | |
| Flat, No. 0 Cut | |
| Length, Inches | 5 1/2 |
| Per Dozen | \$2.60 |

| | |
|--|--------|
|  | |
| Three Square, No. 0 Cut | |
| Length, Inches | 5 1/2 |
| Per Dozen | \$2.60 |
|  | |
| Half Round, No. 0 Cut | |
| Length, Inches | 5 1/2 |
| Per Dozen | \$2.60 |
|  | |
| Square, No. 0 Cut | |
| Length, Inches | 5 1/2 |
| Per Dozen | \$2.60 |
|  | |
| Knife, No. 0 Cut | |
| Length, Inches | 5 1/2 |
| Per Dozen | \$2.60 |


ESCAPEMENT FILES IN SETS

| | |
|--|-------------------|
| 5 1/2 Inch Assorted—Per Set of 8, One Each of Above Patterns | Per Set \$1.85 |
|--|-------------------|

DIE SINKERS RIFFLERS

| | | | |
|---|--------|-------|------|
|  | | | |
| 18 Assorted Styles and Shapes in a Set | | | |
| Length, Inches | 6 | 6 1/2 | 7 |
| Per Set | \$7.70 | 8.00 | 8.60 |







SILVERSMITHS RIFFLERS




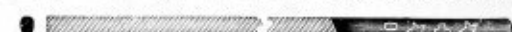
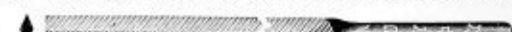
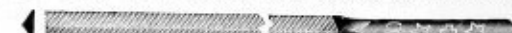
| | |
|--|--------|
|  | |
| 12 Assorted Styles and Shapes in a Set | |
| Length, Inches | 7 1/2 |
| Per Set | \$7.50 |

BENCH FILING MACHINE FILES

STYLE A

3 1/4 in. Long Over All, 1/4 in. Diameter Round Shanks, Made in Three Cuts

| | |
|---|---------------------|
|  | |
| Round—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Half Round—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Pillar—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Oval—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Knife—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Square—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |

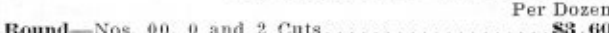
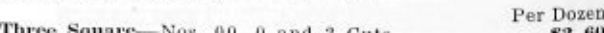
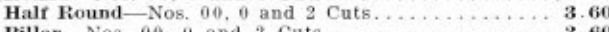
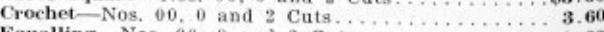
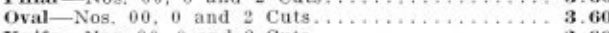
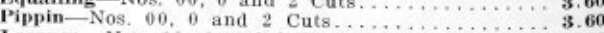
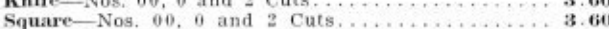
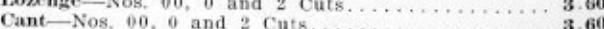

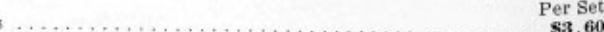


| | |
|--|---------------------|
|  | |
| Three Square—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Crochet—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Equalling—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Pippin—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Lozenge—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |
|  | |
| Cant—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.90 |

| | |
|--|-------------------|
| No. A Set—12 Assorted Shapes, One Each of Above Styles | Per Set \$3.90 |
|--|-------------------|

THIN BENCH FILING MACHINE FILES

STYLE B

3 1/4 in. Long Over All, 1/8 in. Diameter Round Shank, Made in Three Cuts

| | | | |
|--|---------------------|--|---------------------|
|  | |  | |
| Round—Nos. 00, 0 and 2 Cuts | | Three Square—Nos. 00, 0 and 2 Cuts | |
| | Per Dozen \$3.60 | | Per Dozen \$3.60 |
|  | |  | |
| Half Round—Nos. 00, 0 and 2 Cuts | | Crochet—Nos. 00, 0 and 2 Cuts | |
| | 3.60 | | 3.60 |
|  | |  | |
| Pillar—Nos. 00, 0 and 2 Cuts | | Equalling—Nos. 00, 0 and 2 Cuts | |
| | 3.60 | | 3.60 |
|  | |  | |
| Oval—Nos. 00, 0 and 2 Cuts | | Pippin—Nos. 00, 0 and 2 Cuts | |
| | 3.60 | | 3.60 |
|  | |  | |
| Knife—Nos. 00, 0 and 2 Cuts | | Lozenge—Nos. 00, 0 and 2 Cuts | |
| | 3.60 | | 3.60 |
|  | |  | |
| Square—Nos. 00, 0 and 2 Cuts | | Cant—Nos. 00, 0 and 2 Cuts | |
| | 3.60 | | 3.60 |

| | |
|--|-------------------|
| No. B Set—12 Assorted Shapes, One Each of Above Styles | Per Set \$3.60 |
|--|-------------------|

SWISS PATTERN FILES

AMERICAN SWISS FILE AND TOOL CO.

PARALLEL MACHINE

Length of Cut 5 in., Made in Three Cuts

| | |
|--|---------------------|
| Round—Style C, $\frac{1}{4}$ in. Diam., Nos. 00, 0 and 2 Cuts. | Per Dozen \$3.00 |
| Half Round—Style C, $\frac{1}{4}$ in. Wide, Nos. 00, 0, 2 Cuts. | \$4.20 |
| Pillar—Style C, $\frac{1}{4} \times \frac{1}{8}$ in., Nos. 00, 0 and 2 Cuts. | \$3.60 |
| Oval—Style C, $\frac{1}{4}$ in. Wide, Nos. 00, 0 and 2 Cuts. | \$5.20 |
| Knife—Style C, $\frac{3}{8}$ in. Wide, Nos. 00, 0 and 2 Cuts. | \$5.20 |
| Square—Style C, $\frac{1}{4}$ in. Wide, Nos. 00, 0 and 2 Cuts. | \$3.25 |

No. C Set—12 Assorted Shapes, One Each of Above Styles.

Note—When Ordering Machine Files, always state number of cut wanted.

All Above, One Dozen in a Box.

| | |
|--|---------------------|
| Three Square—Style C, $\frac{1}{8}$ in. Wide, Nos. 00, 0, 2 Cuts. | Per Dozen \$3.60 |
| Crochet—Style C, $\frac{1}{4} \times \frac{5}{16}$ in., Nos. 00, 0 and 2 Cuts. | \$4.80 |
| Round Edge Joint—Style C, $\frac{1}{4} \times \frac{1}{8}$ in., Nos. 00, 0 and 2 Cuts. | \$3.60 |
| Pippin—Style C, $\frac{1}{2}$ in. Wide, Nos. 00, 0 and 2 Cuts. | \$5.20 |
| Lozenge—Style C, $\frac{1}{8} \times \frac{3}{8}$ in., Nos. 00, 0 and 2 Cuts. | \$5.40 |
| Crossing—Style C, $\frac{3}{8} \times \frac{5}{16}$ in., Nos. 00, 0 and 2 Cuts. | \$5.20 |

Per Set

\$4.60

VIXEN FILES

PATENT CUT AND KEEN CUT

Vixen Files are made in two styles—the tang style is the same as the ordinary file, except that it is parallel. The flexible style is attached to a back to give it rigidity; the back may be straight or bent before the blade is attached, thereby giving it a convexity necessary on many classes of work.

Vixen Patent Cut Files

The teeth are curved undercut which gives a shearing cut. Each tooth is individually milled from solid alloy steel. The individual cutting produces a better file than the usual hammering or striking up process.

Vixen Keen Cut Files

Are produced by a new and improved method which differs somewhat from the methods involved in the production of Vixen Patent Files.

Vixen Diagonal Cut Files

With teeth diagonally arranged at 75 degree angle. This type has been found highly satisfactory on certain kinds of work. The teeth are deeply cut and scientifically raked, therefore the file cuts fast; keen and wears for a considerable time.

FLAT



| Prices Per Dozen | | | | | | |
|------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| Length, Inches | 8 | 10 | 12 | 14 | 16 | 18 |
| Wt. Dozen, Lbs. | 3 $\frac{3}{4}$ | 6 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 25 $\frac{1}{4}$ | 31 $\frac{1}{4}$ |
| Regular | \$12.90 | 16.10 | 19.40 | 23.30 | 27.90 | 33.70 |
| Fine | 15.50 | 18.80 | 22.20 | 25.90 | 30.40 | 36.30 |
| Smooth | 16.90 | 20.10 | 23.30 | 27.10 | 31.80 | 37.50 |

FLAT UTILITY

| Length, Inches | 8 | 10 | 12 | 14 | 16 |
|----------------|---------|-------|-------|-------|-------|
| Per Dozen | \$14.80 | 18.10 | 21.30 | 25.30 | 29.70 |

Utility Files are cut one side regular and the other side smooth.

FLAT BABBITT

| Length, Inches | 12 | 14 |
|----------------|---------|-------|
| Per Dozen | \$23.90 | 26.60 |

Babbitt Files have 8 Teeth Per Inch.

HALF ROUND



| Length, Inches | 8 | 10 | 12 | 14 | 16 |
|----------------|---------|-------|-------|-------|-------|
| Regular | \$15.10 | 18.30 | 21.70 | 26.00 | 31.00 |
| Fine | 17.80 | 21.00 | 24.40 | 28.40 | 33.50 |
| Smooth | 19.10 | 22.30 | 25.50 | 29.40 | 34.90 |

HALF OVAL

Particularly Adapted for Auto Body Work.

| Length, Inches | 10 | 12 | 14 | 16 |
|----------------|---------|-------|-------|-------|
| Regular | \$18.30 | 21.70 | 26.00 | 31.00 |

Flat Tanged and Flat Flexible, are made in Vixen Patent, Keen and Diagonal Cut. Square, Half Round, Half Oval Tanged and Half Oval Flexible are made in Keen Cut only, Flat Utility, Babbitt and Pillar Tanged are made in Vixen Patent only.

Note—When ordering Vixen Files always state the style required.

All Above, One-half Dozen in a Box.

PILLAR



| Length, Inches | 8 | 10 | 12 | 14 |
|----------------|---------|-------|-------|-------|
| Regular | \$14.10 | 17.70 | 21.50 | 25.10 |
| Fine | 17.00 | 20.40 | 24.10 | 27.90 |
| Smooth | 18.40 | 22.00 | 25.10 | 29.70 |

SQUARE



| Length, Inches | 8 | 10 | 12 | 14 |
|----------------|---------|-------|-------|-------|
| Regular | \$13.50 | 16.90 | 20.40 | 24.50 |

*FLEXIBLE



| Length, Inches | 8 | 10 | 12 | 14 | 16 |
|------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Weight Dozen, Lbs. | 1 $\frac{3}{4}$ | 2 $\frac{3}{4}$ | 4 $\frac{1}{2}$ | 7 $\frac{1}{2}$ | 11 $\frac{1}{2}$ |
| Regular | \$14.20 | 17.80 | 21.40 | 25.70 | 30.70 |
| Fine | 17.10 | 20.70 | 24.30 | 28.50 | 33.40 |
| Smooth | 18.50 | 22.10 | 25.70 | 29.90 | 34.90 |
| Backs | 7.20 | 7.80 | 8.40 | 9.00 | 9.60 |
| Bolt and Nut, Dz. Sets | 2.40 | 2.40 | 2.40 | 3.00 | 3.00 |
| Resharpener | 2.70 | 3.00 | 3.40 | 3.60 | 3.99 |

*Flexible Files are cut on both sides and must be attached to a back when in use. One back given with each dozen flexible files of a size.

UTICA PLIERS

LINEMEN'S HEAVY SIDE CUTTING



No. 1950—Beveled Face

| | | | | |
|---|---------|-------|--------|--------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches..... | 6 | 7 | 8 | 9 |
| Weight Dozen, Lbs.... | 5 3/4 | 9 1/4 | 13 1/2 | 15 1/2 |
| Per Dozen | \$20.42 | 24.94 | 28.42 | 37.90 |

STANDARD SIDE CUTTING



No. 50—Lap Joint

| | | | | |
|---|---------|-------|-------|--------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches..... | 5 | 6 | 7 | 8 |
| Weight Dozen, Lbs.... | 3 1/4 | 6 1/4 | 7 3/4 | 10 1/4 |
| Per Dozen | \$13.95 | 15.15 | 16.75 | 18.20 |

REGULAR SIDE CUTTING



No. 1050—Lap Joint

| | | | | | |
|---|---------|-------|-------|-------|--------|
| No. 1000 Lap Joint | | | | | |
| Forged Steel, Smooth Handles, Black Finish. | | | | | |
| Length, Inches... | 4 | 5 | 6 | 7 | 8 |
| Wt. Dozen, Lbs... | 2 | 3 1/4 | 6 1/4 | 7 3/4 | 10 3/4 |
| Per Dozen..... | \$10.40 | 11.35 | 12.60 | 13.68 | 15.15 |

COMBINATION SIDE CUTTING



No. 700—With Pipe Grip and Three Cutters

| | | | | |
|---|--|--|--|---------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | | 7 |
| Weight Dozen, Lbs..... | | | | 8 1/2 |
| Per Dozen | | | | \$18.75 |

FLAT NOSE BURNER



No. 25—With Side Cutter

| | | | | |
|---|--|--|--|---------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | | 5 1/2 |
| Weight Dozen, Lbs..... | | | | 3 3/8 |
| Per Dozen | | | | \$16.40 |

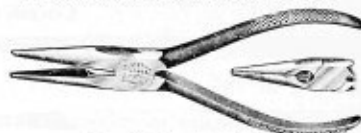
ROUND NOSE BURNER



No. 325—With Side Cutter

| | | | | |
|---|--|--|--|---------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | | 5 1/2 |
| Weight Dozen, Lbs..... | | | | 3 3/8 |
| Per Dozen | | | | \$16.45 |

LONG NOSE SIDE CUTTING



No. 654—Lap Joint

| | | | | |
|---|--|--|---------|-------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | 5 1/2 | 6 |
| Weight Dozen, Lbs..... | | | 3 | 4 |
| Per Dozen | | | \$16.80 | 18.90 |

MACHINISTS SHORT CHAIN NOSE SIDE CUTTING



No. 622—Lap Joint

| | | | | |
|---|--|--|---------|--|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | 5 | |
| Weight Dozen, Lbs..... | | | 2 3/4 | |
| Per Dozen | | | \$14.10 | |

LONG REACH FLAT NOSE SIDE CUTTING



No. 650—Lap Joint

| | | | | |
|---|--|--|---------|-------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | 5 1/2 | 6 |
| Weight Dozen, Lbs..... | | | 3 1/2 | 4 |
| Per Dozen | | | \$16.80 | 21.06 |

JEWELERS LONG CHAIN NOSE



No. 1033—Lap Joint

| | | | | |
|---|--|--|---------|-------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | 5 1/2 | 6 |
| Weight Dozen, Lbs..... | | | 2 1/4 | 3 1/2 |
| Per Dozen | | | \$14.25 | 16.25 |

LONG NEEDLE NOSE



No. 777—Lap Joint

| | | | | |
|---|--|--|---------|--|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | 5 1/2 | |
| Weight Dozen, Lbs..... | | | 2 1/4 | |
| Per Dozen | | | \$17.90 | |

CURVED NEEDLE NOSE



No. 888—Lap Joint

| | | | | |
|---|--|--|---------|--|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | | | 5 1/2 | |
| Weight Dozen, Lbs..... | | | 2 1/4 | |
| Per Dozen | | | \$21.06 | |

All Above Pliers, One in a Box; One-half Dozen Boxes in a Carton.

UTICA PLIERS

FLAT NOSE



No. 20—Lap Joint

| | | | | | |
|--|---------|-------|-------|-------|-------|
| Forged Steel, Smooth Handles, Blue Gun Metal Finish. | | | | | |
| Length, Inches | 4 | 4½ | 5 | 5½ | 6 |
| Weight Dozen, Lbs. | 1¾ | 2 | 2¾ | 3¼ | 4½ |
| Per Dozen | \$10.10 | 10.62 | 11.04 | 11.78 | 12.62 |

ROUND NOSE



No. 21—Lap Joint

| | | | | | |
|--|---------|-------|-------|-------|-------|
| Forged Steel, Smooth Handles, Blue Gun Metal Finish. | | | | | |
| Length, Inches | 4 | 4½ | 5 | 5½ | 6 |
| Weight Dozen, Lbs. | 1¾ | 2 | 2¾ | 3¼ | 4½ |
| Per Dozen | \$10.10 | 10.62 | 11.04 | 11.78 | 12.62 |

SHORT CHAIN NOSE



No. 22—Lap Joint

| | | | | | |
|--|---------|-------|-------|-------|-------|
| Forged Steel, Smooth Handles, Blue Gun Metal Finish. | | | | | |
| Length, Inches | 4 | 4½ | 5 | 5½ | 6 |
| Weight Dozen, Lbs. | 1¾ | 2 | 2¾ | 3¼ | 4½ |
| Per Dozen | \$10.10 | 10.62 | 11.04 | 11.78 | 12.62 |

LONG ROUND NOSE



No. 5—Box Joint

| | | | |
|--|---------|-------|--|
| Forged Steel, Smooth Handles, Blue Gun Metal Finish. | | | |
| Length, Inches | 4½ | 5½ | |
| Weight Per Dozen, Lbs. | 2 | 3¼ | |
| Per Dozen | \$15.06 | 16.50 | |

LONG FLAT NOSE



No. 4—Box Joint

| | | | |
|---|---------|-------|--|
| Forged Steel, Smooth Handle, Blue Gun Metal Finish. | | | |
| Length, Inches | 4½ | 5½ | |
| Weight Per Dozen, Lbs. | 2 | 3¼ | |
| Per Dozen | \$15.06 | 16.50 | |

BUTTONS PATTERN



No. 1000—With Four Wire Cutters

| | | | | |
|---|--------|-------|-------|-------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | 4½ | 6 | 8 | 10 |
| Weight Per Dozen, Lbs. | 5 | 6¾ | 10½ | 17¾ |
| Per Dozen | \$9.48 | 10.74 | 12.94 | 17.16 |

LONG DUCK BILL



No. 86—Lap Joint, Flat Jaw

| | | | | |
|--|---------|--|--|--|
| Forged Steel, Smooth Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | 5½ | | | |
| Weight Per Dozen, Lbs. | 4¾ | | | |
| Per Dozen | \$15.20 | | | |

GAS PIPE AND BURNER



No. 1300—Lap Joint

| | | | | | |
|---|---------|-------|-------|-------|-------|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | | |
| Length, Inches | 5 | 6 | 7 | 8 | 10 |
| Weight Dozen, Lbs. | 4 | 5 | 6¾ | 9¾ | 15¼ |
| Per Dozen | \$10.00 | 11.58 | 13.16 | 14.74 | 16.84 |

HIGH GRADE DIAGONAL



No. 42—Box Joint

| | | | | |
|---|---------|-------|-------|--|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | | |
| Length, Inches | 4 | 4½ | 5 | |
| Weight Per Dozen, Lbs. | 2 | 2½ | 3 | |
| Per Dozen | \$18.00 | 18.90 | 20.20 | |
| Length, Inches | 5½ | 6 | 6½ | |
| Weight Per Dozen, Lbs. | 3¼ | 4¼ | 4½ | |
| Per Dozen | \$21.85 | 23.55 | 25.20 | |

STANDARD DIAGONAL



No. 41—Lap Joint

| | | | |
|--|---------|-------|--|
| Forged Steel, Smooth Handles, Blue Gun Metal Finish. | | | |
| Length, Inches | 5 | 6 | |
| Weight Per Dozen, Lbs. | 3¼ | 5½ | |
| Per Dozen | \$16.65 | 20.00 | |

GIANT DIAGONAL



No. 40—Lap Joint

| | | | |
|--|---------|--|--|
| Forged Steel, Smooth Handles, Blue Gun Metal Finish. | | | |
| Length, Inches | 7 | | |
| Weight Per Dozen, Lbs. | 7 | | |
| Per Dozen | \$18.00 | | |

FENCE



No. 1900—Stretches or Cuts Wire, Pulls and Drives Staples

| | | | |
|---|---------|--|--|
| Forged Steel, Checkered Handles, Blue Gun Metal Finish. | | | |
| Length, Inches | 10 | | |
| Weight Per Dozen, Lbs. | 20 | | |
| Per Dozen | \$25.50 | | |

KRAEUTER PLIERS

Forged from High Grade Tool Steel, Heated and Tempered in Automatic Furnaces, Accurate Milled Teeth Specially Tempered, Precision Fitted Joints, "Don't Slip" Handles which gives Added Comfort to the Hand and Prevents Slipping Especially when Hands are Greasy. Each Plier Tested before Leaving Factory.

Kraeuter Finish is a High Lustrous Crocus Effect, Offset in the Special Designed Handles with a Velvety Black Forming a Pleasing Contrast.

LINEMANS SIDE CUTTING



No. 1801—Forged Steel, Kraeuter Finish.

| | | | |
|------------------|---------|-------|--------|
| Length, Inches | 6 | 7 | 8 1/2 |
| Weight Each, Oz. | 7 1/2 | 11 | 15 1/2 |
| Per Dozen | \$20.00 | 24.50 | 28.00 |

Will stand unusual strains and maintain enduring cutting edges. Every Plier is individually treated and hand fitted by skilled mechanics, and is joined with a rivet as hard as file steel.

KRAEUTER SIDE CUTTING



No. 1831—Forged Steel, Kraeuter Finish.

| | | | |
|------------------|---------|-------|-------|
| Length, Inches | 6 1/2 | 7 | 8 |
| Weight Each, Oz. | 7 1/2 | 9 | 13 |
| Per Dozen | \$15.00 | 16.60 | 18.00 |

UNIVERSAL CUTTING



No. 1821—Forged Steel, Kraeuter Finish.

| | | | |
|------------------|---------|--------|-------|
| Length, Inches | 6 1/2 | 7 1/2 | 8 |
| Weight Each, Oz. | 7 1/2 | 10 1/2 | 13 |
| Per Dozen | \$17.00 | | 18.50 |

KRAEUTER BUTTONS PATTERN



No. 1841—Forged Steel, Kraeuter Finish.

| | | | |
|------------------|---------|-------|--------|
| Length, Inches | 6 1/2 | 8 | 10 |
| Weight Each, Oz. | 8 1/2 | 13 | 18 1/2 |
| Per Dozen | \$11.00 | 13.00 | 17.00 |

FLAT NOSE



No. 1601—Forged Steel, Kraeuter Finish.

| | | | |
|------------------|---------|-------|-------|
| Length, Inches | 4 | 5 | 6 |
| Weight Each, Oz. | 2 | 3 1/2 | 5 1/2 |
| Per Dozen | \$10.00 | 11.00 | 12.50 |

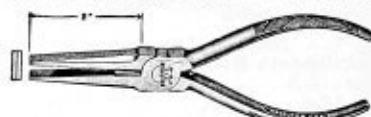
ROUND NOSE



No. 1611—Forged Steel, Kraeuter Finish.

| | | | |
|------------------|---------|-------|-------|
| Length, Inches | 4 | 5 | 6 |
| Weight Each, Oz. | 2 | 3 | 5 |
| Per Dozen | \$10.00 | 11.00 | 12.50 |

LIGHT EXTRA LONG FLAT NOSE



No. 1741—Forged Steel, Kraeuter Finish.

| | |
|------------------|---------|
| Length, Inches | 6 |
| Weight Each, Oz. | 3 1/2 |
| Per Dozen | \$15.00 |

NEEDLE NOSE



No. 1671—Forged Steel, Kraeuter Finish.

| | |
|------------------|---------|
| Length, Inches | 6 |
| Weight Each, Oz. | 3 1/2 |
| Per Dozen | \$17.00 |

LONG FINE NEEDLE NOSE



No. 1621—Forged Steel, Kraeuter Finish.

| | |
|------------------|---------|
| Length, Inches | 6 |
| Weight Each, Oz. | 3 1/2 |
| Per Dozen | \$18.00 |

CURVED NEEDLE NOSE



No. 1631—Forged Steel, Kraeuter Finish.

| | |
|------------------|---------|
| Length, Inches | 5 1/2 |
| Weight Each, Oz. | 3 1/2 |
| Per Dozen | \$21.00 |

NEEDLE NOSE SIDE CUTTING



No. 1661—Forged Steel, Kraeuter Finish.

| | |
|------------------|---------|
| Length, Inches | 6 |
| Weight Each, Oz. | 3 1/2 |
| Per Dozen | \$21.00 |

DIAGONAL CUTTING



No. 2601—Forged Steel, Kraeuter Finish.

| | | | | |
|------------------|---------|-------|-------|-------|
| Length, Inches | 4 1/2 | 5 | 5 1/2 | 6 |
| Weight Each, Oz. | 2 1/2 | 3 1/2 | 4 1/2 | 5 1/2 |
| Per Dozen | \$15.00 | 16.50 | 18.00 | 19.50 |

These Pliers are made especially for close cutting. They are made from a special plier steel and finely fitted for exact work. The joint is made sturdy and long to obtain extra rigidity.

All Above Pliers, One in a Box, Half Dozen Boxes in a Carton.

COMBINATION PLIERS

KRAEUTER "GRIPITITE"



No. 356—Slip Joint, Nickel Plated, with Wire Cutter

Has Screw Driver and Wire Cutter Feature. Jaws are made to secure a good large grip as well as a small one.

| | | | | |
|----------------------|---------|-------|-------|-------|
| Length, Inches..... | 5½ | 6 | 8 | 10 |
| Weight Each, Oz..... | 3¾ | 8½ | 11½ | 14½ |
| Per Dozen | \$10.00 | 12.00 | 15.00 | 18.00 |

KRAEUTER "GRIPKUT"



No. 1973—Slip Joint, Nickel Plated, Side Cutters

For Mechanics, Electricians, Plumbers and Auto Repair Men. Has a small groove in nose for holding cotter pins and shoving them into place. Bolt head is depressed for working in close quarters.

| | |
|----------------------|---------|
| Length, Inches | 7 |
| Weight Each, Oz..... | 9 |
| Per Dozen | \$19.20 |

KRAEUTER BENT NOSE



No. 1923—Slip Joint, Nickel Plated, 25° Bent Jaws

Particularly adapted for working in places that are difficult to reach and where it is necessary to work at an angle.

| | | |
|----------------------|---------|-------|
| Length, Inches | 8 | 10 |
| Weight Each, Oz..... | 11½ | 14½ |
| Per Dozen | \$18.00 | 21.00 |

All Above, One in a Box; One-half Dozen in a Carton.

CRESCENT MOTOR KIT



Slip Joint, with Wire Cutter and Screw Driver

Drop Forged High Carbon Open Hearth Steel, Hardened and Oil Drawn, Bolt Turned from Solid Bar Cold Rolled Steel and Case Hardened, Drilled Holes, Checker Dot Knurled Handles, Nickel Plated, Hand Finished.

| | | | | |
|----------------------|--------|------|------|-------|
| Nos. | G25 | G26 | G28 | G210 |
| Length, Inches..... | 5 | 6 | 8 | 10 |
| Capacity, Inches.... | ¾ | 1 | 1¼ | 1½ |
| Weight Each, Oz..... | 3½ | 8 | 10 | 16 |
| Per Dozen..... | \$5.00 | 5.00 | 7.20 | 10.00 |

CRESCENT CEE TEE CO



Slip Joint, with Wire Cutter and Screw Driver

Drop Forged High Carbon Open Hearth Steel, Milled Teeth, Checker Dot Knurled Handles, Nickel Plated Machine Finished.

| | | | | |
|----------------------|--------|------|------|------|
| Nos. | H25 | H26 | H28 | H210 |
| Length, Inches..... | 5 | 6 | 8 | 10 |
| Weight Each, Oz..... | 3½ | 8 | 10 | 16 |
| Per Dozen | \$3.35 | 3.35 | 5.00 | 7.50 |

CRESCENT UNIVERSAL



Slip Joint, Milled Teeth, with Screw Driver and Cutter

Drop Forged High Carbon Open Hearth Steel, Hardened, Nickel Plated.

| | |
|----------------------|--------|
| No. | D27 |
| Length, Inches | 7 |
| Weight Each, Oz..... | 9 |
| Per Dozen | \$7.20 |

All Above, One in a Box.

CRESCENT THIN STRAIGHT NOSE



Slip Joint, Milled Teeth, with Cutter

Drop Forged High Carbon Open Hearth Steel, Hardened, Nickel Plated.

| | | |
|------------------------|--------|------|
| Nos. | L25 | L26 |
| Length, Inches | 5 | 6 |
| Capacity, Inches | ¾ | 1 |
| Weight Each, Oz..... | 3 | 6 |
| Per Dozen | \$5.75 | 5.75 |

CRESCENT THIN BENT NOSE



Slip Joint, Milled Teeth, with Cutter

Drop Forged High Carbon Open Hearth Steel Hardened and Oil Tempered, Bolt and Nut Turned from Solid Steel Bar and Hardened, Drilled Holes, Checker Dot Knurled Handles, Polished and Nickel Plated.

| | |
|---|--------|
| No. J26—6 in. Long, Capacity 1 in., for Work on Check Nuts, etc., Weight Per Dozen 5¼ Lbs. | \$7.20 |
|---|--------|

All Above, One in a Box.

UTICA REGULAR



No. 5000—Slip Joint

Forged Steel, Checkered Handles, Nickel Plated.

| | | | |
|------------------------|---------|-------|-------|
| Length, Inches | 5 | 6 | 8 |
| Weight Dozen, Lbs..... | 3 | 6 | 9 |
| Per Dozen | \$10.00 | 12.00 | 15.00 |

UTICA BENT NOSE



No. 5001—Slip Joint

Forged Steel, Checkered Handles, Nickel Plated.

| | | |
|------------------------|---------|-------|
| Length, Inches | 6 | 8 |
| Weight Dozen, Lbs..... | 6 | 9 |
| Per Dozen | \$14.00 | 17.00 |

UTICA THIN NOSE



No. 10—Slip Joint

Forged Steel, Checkered Handles, Nickel Plated.

| | |
|------------------------|--------|
| Length, Inches | 6½ |
| Weight Dozen, Lbs..... | 9 |
| Per Dozen | \$6.00 |

UTICA FLUSH BOLT THIN NOSE



No. 500—Slip Joint

Forged Steel, Checkered Handles, Nickel Plated.

| | |
|------------------------|---------|
| Length, Inches | 6½ |
| Weight Dozen, Lbs..... | 9 |
| Per Dozen | \$15.20 |

UTICA SIDE CUTTING



No. 503—Slip Joint

Forged Steel, Checkered Handles, Nickel Plated.

| | |
|------------------------|---------|
| Length, Inches | 6½ |
| Weight Dozen, Lbs..... | 7 |
| Per Dozen | \$17.50 |

All Above, One in a Box; One-half Dozen in a Carton.

PLIERS

KLEIN LINEMENS "DIAMOND SPECIAL" SIDE CUTTING



No. 201—For Use on Bare and Insulated Wire

Forged Special Bar Steel, Carefully Tempered Black Handles, Polished Head.

| | | | | |
|----------------------|---------|-------|-------|-------|
| Length, Inches..... | 6 | 7 | 8 | 9 |
| Weight Each, Oz..... | 8 | 12 | 16 | 17 |
| Per Dozen | \$39.00 | 46.50 | 51.50 | 62.00 |

KLEIN LONG NOSE SIDE CUTTING



Forged Special Bar Steel

Carefully Tempered, Black Finish, Polished Head.

| | | |
|----------------------|---------|-------|
| Nos..... | 203-5 | 203-6 |
| Length, Inches..... | 5 | 6 |
| Weight Each, Oz..... | 3 1/2 | 4 |
| Per Dozen | \$34.50 | 37.50 |

KLEIN LONG NEEDLE NOSE



Forged Special Bar Steel

Carefully Tempered, Black Finish, Polished Head.

| | | |
|----------------------|---------|-------|
| Nos..... | 301-5 | 301-6 |
| Length, Inches..... | 5 | 6 |
| Weight Each, Oz..... | 3 1/2 | 4 |
| Per Dozen | \$28.50 | 31.50 |

KLEIN OBLIQUE CUTTING



For Electricians, Telephone and Switchboard Work

Special Forged Steel, Tempered, Black Handles, Polished Head.

| | | |
|----------------------|---------|-------|
| Nos..... | 202-5 | 202-6 |
| Length, Inches..... | 5 | 6 |
| Weight Each, Oz..... | 5 1/2 | 6 |
| Per Dozen | \$34.50 | 38.50 |

All Above One in a Box, One-half Dozen in a Carton.

CRESCENT RADIO



Long Nose with Wire Cutter and Burner Grip

Drop Forged from High Carbon Steel, Checkered Handles, Polished.

| | |
|---|--------|
| No. M16—6 in. Long, Weight Each 7 Oz..... | \$9.00 |
| One-half Dozen on Display Card..... | |

PEXTO RADIO



With Wire Cutter

Forged Steel, Polished, Knurled Handles.

| | |
|---|---------|
| No. 32—5 in. Long, Weight Each 4 Oz..... | \$14.00 |
| One in a Box, One-half Dozen in a Carton..... | |

PLIERS

PEXTO LINEMENS SIDE CUTTING



No. 500—Lap Joint

Forged Steel, Blued Knurled Handles, Polished Beveled Head.

| | | | |
|----------------------|---------|-------|--------|
| Length, Inches..... | 6 | 7 | 8 |
| Weight Each, Oz..... | 8 | 9 1/2 | 16 1/2 |
| Per Dozen | \$25.20 | 30.50 | 35.70 |

PEXTO "STAR RIVET" SIDE CUTTING



No. 30—Box Joint

Forged Steel, Blued Knurled Handles, Polished Head.

| | | | | |
|----------------------|---------|-------|-------|-------|
| Length, Inches..... | 5 | 6 | 7 | 8 |
| Weight Each, Oz..... | 3 1/2 | 7 | 9 | 14 |
| Per Dozen..... | \$27.00 | 29.70 | 35.70 | 41.90 |

PEXTO INSULATED SIDE CUTTING



No. 300—Box Joint

Forged Steel, Insulated Handles, Polished Head.

| | | | |
|----------------------|---------|-------|-------|
| Length, Inches..... | 6 | 7 | 8 |
| Weight Each, Oz..... | 8 | 12 | 16 |
| Per Dozen | \$50.60 | 57.60 | 64.50 |

PEXTO SIDE CUTTING



No. 240—Forged Steel, Black Finish, Polished Face

| | | | | | |
|-------------------|---------|-------|-------|-------|-------|
| Length, Inches... | 4 | 5 | 6 | 7 | 8 |
| Weight Each, Oz. | 3 | 3 1/2 | 6 1/2 | 9 | 14 |
| Per Dozen..... | \$15.10 | 15.90 | 17.20 | 20.40 | 22.40 |

All Above One in a Box, One-half Dozen in a Carton.

PEXTO BURNER



No. 3—For Plumbers and Gas Fitters

Drop Forged Steel, Well Tempered, Finely Finished Jaws, Full Polished.

| | | |
|----------------------|--------|-------|
| Length, Inches..... | 6 | 7 |
| Weight Each, Oz..... | 6 | 7 1/2 |
| Per Dozen | \$9.00 | 9.70 |

One-half Dozen in a Box.

PEXTO PIPE



No. 13—For Plumbers and Gas Fitters

Drop Forged Steel, Well Tempered, Finely Polished Jaws, Full Polished.

| | | | | |
|----------------------|---------|-------|-------|-------|
| Length, Inches..... | 8 | 10 | 12 | 14 |
| Weight Each, Oz..... | 10 | 15 | 16 | 22 |
| Per Dozen | \$10.80 | 13.40 | 15.30 | 18.80 |

One-half Dozen in a Box.

PLIERS**BERNARD SIDE CUTTING****No. 102—Parallel Jaws**

Crucible Steel, Open Throat, Closed-in Handles, Full Nickel Plated.

| | | | | |
|------------------------|---------|-------|-------|--------|
| Length, Inches | 4 1/2 | 5 1/2 | 6 1/2 | 8 |
| Weight Per Dozen, Lbs. | 3 1/4 | 5 1/4 | 6 3/4 | 13 1/4 |
| Per Dozen | \$18.00 | 23.00 | 27.00 | 39.00 |

One-half Dozen in a Box.

BERNARD FLAT NOSE**No. 100—Parallel Jaws**

Crucible Steel, Full Nickel Plated, Open Throat, Closed-in Handles, Knurled Grips.

| | | | | |
|------------------------|---------|-------|-------|--------|
| Length, Inches | 4 1/2 | 5 1/2 | 6 1/2 | 8 |
| Weight Per Dozen, Lbs. | 3 | 4 3/4 | 6 1/4 | 12 1/2 |
| Per Dozen | \$10.00 | 13.00 | 16.00 | 24.00 |

One-half Dozen in a Box.

BERNARD ROUND NOSE**No. 101—Parallel Jaws**

Crucible Steel, Full Nickel Plated, Open Throat, Closed-in Handles, Knurled Grips.

| | |
|------------------------|---------|
| Length, Inches | 6 1/2 |
| Weight Per Dozen, Lbs. | 6 1/4 |
| Per Dozen | \$16.00 |

One-half Dozen in a Box.

BERNARD BELT PUNCH**No. 120—Parallel Jaws**

Crucible Steel, Full Nickel Plated, Open Throat, Closed-in Handles, Knurled Grips.

| | |
|------------------------|---------|
| Length, Inches | 6 |
| Weight Per Dozen, Lbs. | 5 3/4 |
| Per Dozen | \$24.00 |

Cuts and pierces round belting and useful for clamping or removing belt hooks.

One-half Dozen in a Box.

GLASS**No. 450—Forged Steel**

Black Handles, Polished Jaws, will grasp the glass by the full width of jaw.

| | |
|--|-----------|
| No. 450—8 in. Long, Weight Per Dozen 12 Lbs. | Per Dozen |
| | \$21.00 |

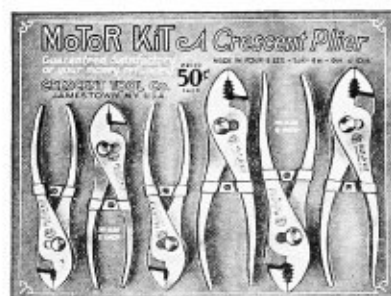
One-half Dozen in a Box.

PLIER DISPLAY BOARDS**CRESCENT PLIER DISPLAY****Mounted on Easel Back Card**

Assortment consists of 1/2 dozen No. L25, 5 in. Thin Straight Nose Pliers and 1/2 dozen No. L26, 6 in. Thin Straight Nose Pliers, together with Display Card.

The 5 in. are mounted on Card, the 6 in. are regular Cartons in the Package.

Each
No. DB7 Display—Consisting of 1 Dozen Pliers with Display Board 8 1/2 x 11 in., Weight 4 Lbs. \$6.00

MOTOR KIT PLIER DISPLAY**Mounted on Easel Back Card**

Assortment Consists of 1/2 dozen Nos. G25, 5 in. and G26, 6 in., Motor Kit Pliers, Three of Each Size are mounted on Display Board as shown above. The other Three of Each Size are packed in Individual Cartons. The Display Card is equipped with Lock and Easel Back.

Each
No. DB8 Display—Consisting of 1 Dozen Pliers with Display Board 8 1/2 x 11 in., Weight 5 1/4 Lbs. \$6.00

One Display in a Box.

These assortments are furnished at the regular price of the pliers with no charge for the display.

PLIER AND WRENCH KIT**CRESCENT****Convenient for Automobiles or Home**

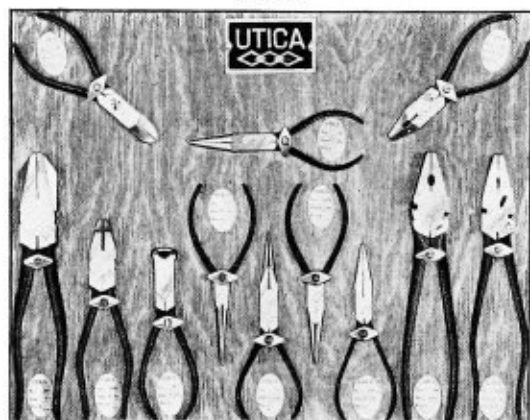
Outfit consists of 6 in. Crescent Thin Nose Plier, 3 in. Crescent Adjustable Wrench and 4 in. Crescent Combination Hammer-Screwdriver.

Per Set
No. TK31—In Stout Brown Duck Roll, Weight 1 3/4 Lbs. \$2.40

One Set in a Box.

PLIER DISPLAY BOARDS

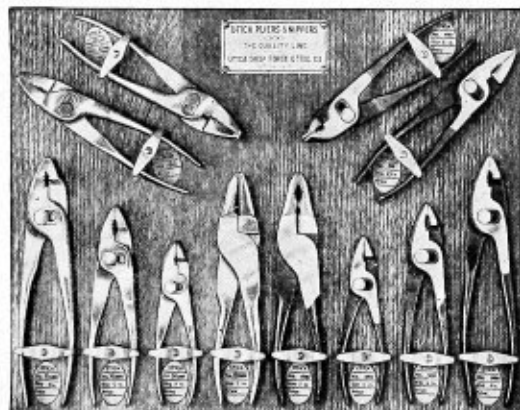
UTICA



This Board is finished in golden oak, has an easel back, and tags to match the Board, giving the Plier number and size with space to insert the price.

Per Assortment

No. 1 Assortment—Consists of 12 Pliers, One Each No. 655, 5½ in.; No. 777, 5½ in.; No. 650, 5½ in.; No. 700, 7 in.; No. 300, 8 in.; No. 25, 5½ in.; No. 50, 8 in.; No. 6000, 7 in.; No. 42, 5½ in.; No. 5000, 6 in.; No. 024, 5 in. and No. 1033, 5½ in., Mounted on Board.....\$17.12



This Board is finished in golden oak with easel back and tags to match the board, giving the plier number with space for price.

Per Assortment

No. 2 Assortment—Consists of 12 Combination Pliers in Utica Finish and Nickel Plated, One Each No. 5000, 5, 6 and 8 in.; No. 6000, 7 in.; No. 4000, 7 in.; No. 500, 6½ in.; No. 502, 6½ in. and No. 5001, 6 in., Mounted on Board. \$13.00

Per Assortment

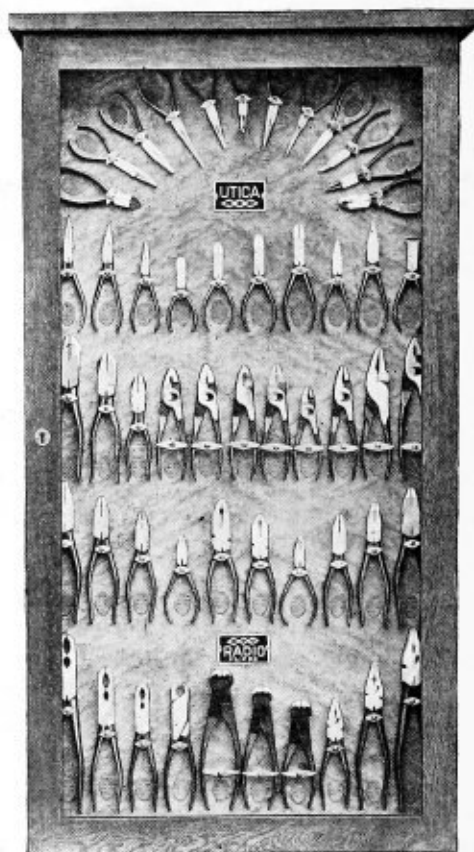
No. 3 Assortment—Consists of 12 Nickel Plated Combination Pliers, 3 Each No. 5000, 5 and 6 in.; 2 No. 5000, 8 in.; 2 No. 500, 6½ in. and 2 No. 6000, 7 in., 1 Each Mounted on Mahogany Finished Display Board..

.....\$13.70

One Assortment in a Box.



UTICA WALL DISPLAY CASE



Containing the assortment of live, fast-selling Pliers. This case hung in a prominent place in your store, will make sales while you are waiting on your customers.

Each

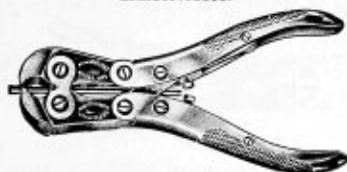
No. 570—Display Case Contains One Each of the Following Pliers\$70.95

| Nos. | Nos. | Nos. |
|-------------|------------|-------------|
| 3400—6½ in. | 60—6 in. | 325—5 in. |
| 777—5½ in. | 5000—8 in. | 1050—5 in. |
| 888—5½ in. | 5000—6 in. | 1050—6 in. |
| 024—5 in. | 5000—5 in. | 1050—7 in. |
| 650—5½ in. | 5001—6 in. | 1050—8 in. |
| 1033—5½ in. | 500—6½ in. | 1950—8 in. |
| 32—5½ in. | 502—6 in. | 1950—7 in. |
| 11—5½ in. | 1—7 in. | 1950—6 in. |
| 65—5 in. | 503—6½ in. | 50—5 in. |
| 42—4 in. | 20—5 in. | 50—6 in. |
| 42—5 in. | 20—6 in. | 50—7 in. |
| 42—5½ in. | 21—5½ in. | 50—8 in. |
| 42—6 in. | 22—5 in. | 1000—10 in. |
| 708—6 in. | 22—6 in. | 1000—8 in. |
| 708—7 in. | 654—5½ in. | 1000—6 in. |
| 6000—7 in. | 655—6 in. | 1300—7 in. |
| 60—8 in. | 40—7 in. | 1300—8 in. |
| 60—7 in. | 41—5 in. | 1300—10 in. |

Description of Case—Height 46 in., width 24 in. Made of golden oak with yellow birch sample boards. Heavy glass door, fitted with Corbin locks. This case remains the property of the Utica Drop Forge and Tool Co., and is loaned for the display of Utica Pliers only and is subject to removal when used for any other purpose.

CUTTING NIPPERS

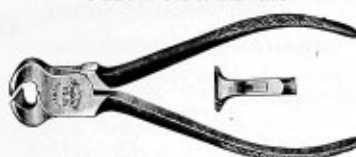
BERNARD

**No. 125—Compound Leverage**

Crucible Steel, Full Nickel Plated, Open Throat, Equipped with Spring for Opening Jaws.

| | | | |
|------------------------|-----------------|---------------|------------------|
| Length, Inches | 5 | 6 | 7 |
| Cuts Wire, Inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Weight Per Dozen, Lbs. | 5 $\frac{1}{4}$ | 8 | 11 $\frac{1}{4}$ |
| Per Dozen | \$27.00 | 30.00 | 36.00 |

One-half Dozen in a Box.

UTICA JEWELERS**No. 65—Box Joint**

Forged Steel, Checkered Handles, Blue Gun Metal Finish.

| | | | |
|------------------------|-----------------|-----------------|-----------------|
| Length, Inches | 4 | 4 $\frac{1}{2}$ | 5 |
| Weight Per Dozen, Lbs. | 2 $\frac{3}{4}$ | 3 $\frac{1}{4}$ | 3 $\frac{3}{4}$ |
| Per Dozen | \$12.25 | 15.75 | 16.30 |

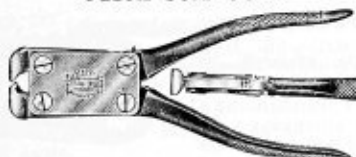
One in a Box, One-half Dozen in a Carton.

UTICA BULL DOG**No. 60—Lap Joint**

Forged Steel, Checkered Handles, Blue Gun Metal Finish.

| | | | | |
|--------------------|-----------------|-----------------|-------|------------------|
| Length, Inches | 5 | 6 | 7 | 8 |
| Weight Dozen, Lbs. | 5 $\frac{3}{4}$ | 7 $\frac{3}{4}$ | 9 | 12 $\frac{1}{2}$ |
| Per Dozen | \$12.30 | 13.70 | 16.10 | 18.90 |

One in a Box, One-half Dozen in a Carton.

UTICA COMPOUND**No. 3—With Compound Leverage**

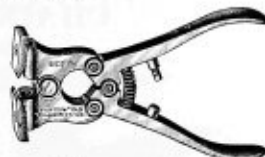
Forged Steel, Checkered Handles, Blue Gun Metal Finish.

| | | | | |
|--------------------|-----------------|-----------------|------------------|------------------|
| Length, Inches | 4 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 7 $\frac{1}{2}$ | 9 |
| Weight Dozen, Lbs. | 4 | 6 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 22 $\frac{1}{4}$ |
| Per Dozen | \$24.00 | 25.70 | 30.85 | 37.45 |

One in a Box, One-half Dozen in a Carton.

STARRETT TILE CUT**No. 235—Drop Forged Steel Head and Handle**

Finely Finished, Tempered High Grade Steel Jaws, Case Hardened Parts.



| | | |
|----------------|-----------------|------|
| Length, Inches | 5 $\frac{1}{4}$ | 7 |
| Each | \$3.50 | 4.50 |

The frames of these Nippers are cut out to allow the jaws to be adjusted for wide opening, thus fitting them to be used in cutting tile, otherwise same as No. 1 described above.

One in a Box.

CUTTING NIPPERS

STARRETT ADJUSTABLE



No. 1



"B" Jaw—For Bicycle use.



"M" Jaw—For Music Wire.



"C" Jaw—For Common Use.

Drop Forged Steel, Head and Handles

Finely Finished, Tempered High Grade Steel Jaws, Case Hardened Parts. Removable Jaws can be ground and adjusted when they become worn. Each

No. 1M—5 $\frac{1}{2}$ in. Long, Opens $\frac{1}{8}$ in., with "M" Jaws for Music Wire. \$3.50No. 1C—5 $\frac{1}{2}$ in. Long, Opens $\frac{1}{8}$ in., with "C" Jaws for Common Use. 3.50No. 1B—5 $\frac{1}{2}$ in. Long, Opens $\frac{1}{8}$ in., with "B" Jaws for Bicycle Use. 3.50No. 1MCB—7 in. Long, Opens $\frac{3}{8}$ in., with M, C or B Jaws, State Kind Wanted when Ordering. 4.50

Extra Jaws—M, C or B. Per Pair, .60

Extra Jaw Screws. Per Dozen, .30

Extra Splines. Per Dozen, .30

One in a Box.

CAREW**Adjustable Tempered Tool Steel Jaws**
Forged Steel Handles, Polished Jaws.

| | | | | |
|--------------------------|-----------------|------|------|------|
| Nos. | 8 | 10 | 12 | 14 |
| Length, Inches | 8 | 10 | 12 | 14 |
| Weight Each, Lbs. | 1 $\frac{1}{2}$ | 2 | 3 | 4 |
| Each | \$5.20 | 5.70 | 6.60 | 8.00 |
| Extra Cutters. Per Pair, | 1.50 | 1.60 | 1.70 | 1.80 |

TODD IMPROVED**Forged Steel Cutters, Black Finished Handles**
Removable Jaws, Fastened with Two Screws.

| | | | | |
|--------------------------|-----------------|-----------------|------|---------------|
| Nos. | 1 | 3 | 4 | 6 |
| Length, Inches | 12 | 10 | 8 | 6 |
| Weight Each, Lbs. | 2 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 1 | $\frac{3}{4}$ |
| Each | \$3.35 | 2.65 | 2.25 | 2.00 |
| Extra Cutters. Per Pair, | 1.00 | .90 | .75 | .70 |

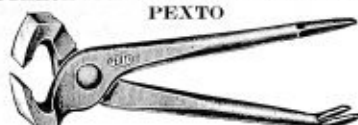
HELLER FARRIERS**Crucible Tool Steel, Full Polished**

| | | |
|------------------------|---------|-------|
| Nos. | 24A | 24 |
| Length, Inches | 12 | 14 |
| Weight Per Dozen, Lbs. | 20 | 28 |
| Per Dozen | \$33.50 | 40.00 |

One-half Dozen in a Box.

CARPENTERS PINNERS

PEXTO

**No. 70—Hammer Head Pattern**

Forged Steel, Polished Face, with Claw and Screw Driver Ends.

| | | | | |
|------------------|--------|-----------------|------|------------------|
| Length, Inches | 6 | 7 | 8 | 10 |
| Weight Each, Oz. | 5 | 6 $\frac{1}{2}$ | 10 | 15 $\frac{1}{2}$ |
| Per Dozen | \$7.20 | 9.00 | 9.90 | 12.60 |

One-half Dozen in a Box.

FARRIERS PINCERS

PEXTO



Solid Steel Polished Jaws. Per Dozen
No. 12—12 in. Long, Weight Per Dozen 22 Lbs. . . \$12.50
One in a Box.

HELLER



Crucible Tool Steel, Oil Finish, Polished Jaws. Per Dozen
No. 20—14 in. Long, Weight Per Dozen 35 Lbs. . . \$33.50
One-quarter Dozen in a Box.



Crucible Tool Steel, Oil Finish, Polished Jaws. Per Dozen
No. 21—12 in. Long, Weight Per Dozen 23 Lbs. . . \$25.00
One-half Dozen in a Box.

HOOF PARERS

HELLER



Full Polished.
Special Refined Crucible Tool Steel.
Nos. 23A 23
Length, Inches 12 14
Weight Per Dozen, Lbs. 20 28
Per Dozen \$33.50 40.00
One-half Dozen in a Box.

BLACKSMITHS TONGS

STRAIGHT LIP



Extra Refined Drop Forged Steel, Tempered.
Length, Inches . . . 16 . . . 18 . . . 20 . . . 22 . . . 24
Weight Dozen, Lbs. . . 21 . . . 24 . . . 30 . . . 33 . . . 36
Per Dozen \$9.60 . . . 10.00 . . . 10.60 . . . 11.25 . . . 13.00

CURVED LIP BOLT



Extra Refined Drop Forged Steel, Tempered.
Size, Inches 3/4 1 1/2 2 3
Length, Inches 20 22 24 26
Weight Per Dozen, Lbs. 24 27 33 35
Per Dozen \$11.60 . . . 12.00 . . . 14.25 . . . 15.00

GAD



Extra Refined Drop Forged Steel, Tempered.
Length, Inches 18 20 22 24
Weight Per Dozen, Lbs. 24 27 39 42
Per Dozen \$11.60 . . . 12.00 . . . 14.25 . . . 15.00

PICK UP



Extra Refined Drop Forged Steel, Tempered.
No. 22—22 in. Long, Weight Per Dozen 39 Lbs. . . \$14.50

BOLT CLIPPERS

PORTER 1855 STYLE



Tool Steel Jaws, Japanned Malleable Iron Handles. Each
No. 12—12 in. Long, Cuts Bolts 1/4 in., Weight Each
1 1/10 Lbs. \$1.70
Six in a Box.

PORTER NEW EASY



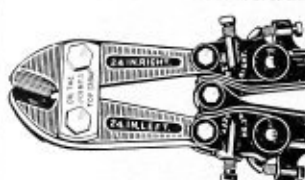
High Grade Tool Steel Jaws.

Japanned Malleable Iron Handles with Rubber Buffers,
Set Screw Adjustment.

| Nos. | 0 | 1 | 2 | 3 |
|--------------------------------|--------|--------|------|------|
| Length, Inches | 18 | 24 1/2 | 30 | 36 |
| Cuts Bolts, Inches | 1/8 | 3/8 | 1/2 | 5/8 |
| Weight Each, Lbs. | 3 | 5 3/4 | 9 | 13 |
| Each | \$3.75 | 5.00 | 7.00 | 9.00 |
| Extra Jaws Per Pair. | 1.35 | 1.65 | 2.35 | 3.00 |

Six in a Box.

HYPOWA ANGULAR



For End or Side Cutting.

Tool Steel Jaws, Japanned
Malleable Iron Handles with
Rubber Buffers.

Cuts with ease in positions
where neither the regular
side or end cutter can be
used. Each

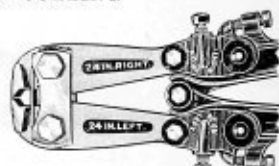
No. 24A—24 1/2 in. Long, Cuts 3/8 in. Bolts Through
Thread or 1/8 in. Soft Rod, Weight Each 5 1/2 Lbs. \$6.00
Extra Jaws Per Pair, 2.30

HYPOWA END CUTTING

Tool Steel Jaws.

Japanned Malleable Iron
Handles with Rubber Bump-
ers. So constructed as to
practically eliminate all
danger of springing or
breaking cutting jaws on
work within the capacity of
the tool. Cutting power increases at end of cut. Jaws can-
not choke. Each

No. 24E—27 1/2 in. Long, Cuts 3/8 in. Bolts Through
Thread or 1/8 in. Soft Rods, Weight Each 5 1/2 Lbs. \$6.00
Extra Jaws Per Pair, 2.30
Six in a Box.



CHAIN CUTTERS

PORTER

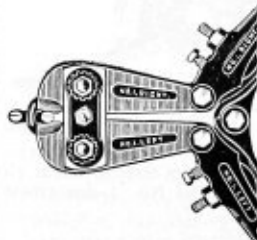
For Hardened Chain.

Tool Steel Jaws, Japanned
Malleable Iron Handles. Each

No. 1H—24 1/2 in. Long,
Cuts 1/2 in. Diameter
Chain, Weight Each
5 3/4 Lbs. \$6.00

Extra Jaws Per Pair, 2.40

Six in a Box.



LINEMEN'S SPLICING CLAMPS

KLEIN COMBINATION



For Wire and Sleeves

Hammer Forged, High Grade Crucible Tool Steel, Spring Tempered, Polished Head, Black Handles. Each

No. 132-12—9 in. Long, Round Holes for Copper Wire Nos. 6, 8, 10 and 12 B. & S. Gauge and Iron Wire Nos. 8, 10, 12 and 14 B. W. Gauge. Reverse Side has 4 Double Chambers for Copper Sleeves Nos. 8, 10, 12, 14 and 17 B. & S. Gauge, for Iron Sleeves Nos. 10, 12, 14, 16 and 19 B. W. Gauge, Weight Each 14 Oz. \$4.75
One in a Carton, Six Cartons in a Box.



For Wire and Sleeves

Hammer Forged, High Grade Crucible Tool Steel, Spring Tempered, Polished Head, Black Handles. Each

No. 132-15—11 1/4 in. Long, 5 Holes for Bare Wire, One Oval Hole for Guy Strand, Reverse Side has Four Double Chambers for Copper Sleeves Nos. 6, 8, 10, 12, 14 and 17 B. & S. Gauge, and Iron Sleeves Nos. 8, 10, 12, 14, 16 and 19 B. W. Gauge, Oval Hole .467x.624, Weight Each 21 Oz. \$6.75
One in a Carton, Six Cartons in a Box.

RED DEVIL COMBINATION



For Wire and Sleeves

Forged Steel, Polished Head, Gun Metal Finish Handles, File Cut Jaws. Each

No. 424—9 in. Long, for Nos. 8, 10, 12 and 14 Iron Wire, Nos. 6, 8, 10 and 12 Copper Wire, 10, 12 and 14 McIntyre Sleeves, Weight Each 14 Oz. \$4.15
One in a Carton, Six Cartons in a Box.



For Wire and Sleeves

Forged Steel, Polished Head, Gun Metal Finish Handles, File Cut Jaws. Each

No. 417—10 3/4 in. Long, for Nos. 6, 8, 10, 12 and 14 Iron Wire, Nos. 4, 6, 8, 10 and 12 Copper Wire, Nos. 8, 10, 12 and 14 McIntyre Sleeves, Weight Each 20 Oz. \$4.40
One in a Carton, Six Cartons in a Box.

LAG SCREW WRENCHES

RED DEVIL



For Linemen Use

Forged Tool Steel, Rust Proof Finish. Each

No. 275—For Hexagon and Square Nuts, 5/8 to 1 1/2 in. by 16ths and Lag Screws and Nuts from 1/4 to 3/4 in., Weight Each 3 1/4 Lbs. \$3.50

This Wrench has the largest range of work of any of similar construction.

Six in a Package.

LINEMEN'S CLIMBERS

KLEIN EASTERN



No. 1901—Punched Strap Loops

Forged Steel, One Piece, without Straps.

| Length, Inches | 15 | 15 1/2 | 16 | 16 1/2 | 17 |
|-----------------------|--------|--------|-------|--------|-------|
| Weight Per Pair, Lbs. | 3 1/4 | 3 3/4 | 3 1/2 | 3 5/8 | 3 3/4 |
| Per Pair | \$5.25 | 5.25 | 5.25 | 5.25 | 5.25 |

One Pair in a Carton.

LINEMEN'S CLIMBER STRAPS



Per Set

No. 5301-1 Set—For Eastern Climbers, Set Consists of Two Upper Straps with 4x4 in. Plain Leather Pads and Two Lower Straps, Made of Select Oak Tanned Harness Leather, Extra Heavy Roller Buckles, Both Heel and Calf Straps are 22 in. Long Over All and 1 1/4 in. Wide, Weight Per Set 1 1/4 Lbs. \$4.50

LINEMEN'S TOOL BELTS

Oak Tanned Harness Leather



DROP FORGED DEE RINGS AND BUCKLE

Cushion 2 1/2 in. wide carries the dee rings. The outer or loop layer is 1 1/2 in. wide, formed into tool loops by riveting to cushion. Furnished with drop forged buckle tested to 1200 pounds.

Each

No. 5202—2 1/4 in. Wide, 38, 40, 42, 44 and 46 in. Long, Weight Each 2 1/2 Lbs. \$5.75
Open Stock.

Note—Always State Length Belt Wanted.

LINEMEN'S SAFETY STRAPS

Selected Harness Leather



Securely sewed, riveted and double reinforced.

DROP FORGED BUCKLE AND BUCKLE

Each

No. 5250—Standard Type, 6 ft. Long, 1 1/4 in. Wide, Japanned Imperial Snaps, Weight Each 2 1/2 Lbs. \$3.50

IMPROVED HAVEN CLAMPS

RED DEVIL

Rust-Proof Finish



Drop Forged Steel, Forged Unbreakable Loop. Each

No. 368—For No. 8 Wire and Smaller, Wt. Each 1 1/4 Lbs. \$3.75

No. 369—For 1 1/2 in. Wire and Smaller, Wt. Each 2 1/2 Lbs. 5.45

BUFFALO GRIPS

RED DEVIL

With Automatic Lock

Forged Steel, White Nickel Finish. Each

No. 471—For No. 6 Wire and Smaller, Wt. Ea. 1 1/2 Lbs. \$5.15

No. 472—For No. 0 Wire and Smaller, Wt. Ea. 2 Lbs. 8.25

No. 473—For 4/0 Wire and Smaller, Wt. Ea. 6 Lbs. 12.35

One in a Box.



WRENCHES

COES GENUINE KNIFE HANDLE



Black Finish

Forged Steel Head and Bar, Hardwood Handle, Riveted Under Pressure.

| | | | | |
|--------------------|---------|-------|-------|--------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Open, Inches | 1 1/8 | 1 3/8 | 1 7/8 | 2 1/4 |
| Weight Dozen, Lbs. | 9 | 15 | 26 | 40 1/2 |
| Per Dozen | \$15.00 | 18.00 | 22.00 | 28.00 |

| | | | |
|--------------------|---------|-------|-------|
| Length, Inches | 15 | 18 | 21 |
| Open, Inches | 2 3/8 | 3 1/4 | 3 7/8 |
| Weight Dozen, Lbs. | 58 | 79 | 107 |
| Per Dozen | \$38.00 | 48.00 | 58.00 |

6 to 12 in., One-half Dozen; 15 and 18 in., One-third Dozen; 21 in., One-twelfth Dozen in a Package.

COES STEEL HANDLE



Black Finish

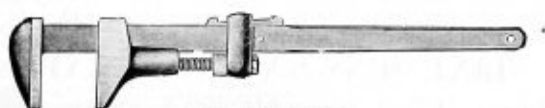
Hardened Special Steel Bar, Jaws and One-piece Screw, Steel Handle. 12 in. and Larger have Ball Bearing Screw.

| | | | | |
|--------------------|---------|-------|-------|-------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Open, Inches | 1 1/8 | 1 3/8 | 1 7/8 | 2 1/4 |
| Weight Dozen, Lbs. | 9 | 16 | 28 | 44 |
| Per Dozen | \$15.00 | 18.00 | 22.00 | 28.00 |

| | | | |
|--------------------|---------|-------|-------|
| Length, Inches | 15 | 18 | 21 |
| Open, Inches | 2 3/8 | 2 7/8 | 4 1/8 |
| Weight Dozen, Lbs. | 64 | 89 | 125 |
| Per Dozen | \$38.00 | 48.00 | 58.00 |

6 to 12 in., One-half Dozen; 15 and 18 in., One-third Dozen; 21 in., One-twelfth Dozen in a Package.

COES KEY MODEL



No. 1926 Type

Forged Steel, Hardened and Tested, Self-Contained Key cannot come off.

| | | |
|--------------------------|---------|-------|
| Length, Inches | 28 | 36 |
| Open, Inches | 5 1/2 | 6 1/4 |
| Takes Pipe Union, Inches | 4 | 5 |
| Weight Each, Lbs. | 19 | 27 |
| Each | \$18.00 | 38.00 |

BEMIS & CALL KNIFE HANDLE



No. 62—Black Finish

Forged Steel Bar and Head, Malleable Iron Frame, Hardwood Handles, Riveted Over Countersunk Washers to prevent splitting.

| | | | | |
|--------------------|---------|-------|-------|-------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Open, Inches | 7/8 | 1 1/4 | 1 3/4 | 2 1/8 |
| Weight Dozen, Lbs. | 9 | 16 | 25 | 40 |
| Per Dozen | \$15.00 | 18.00 | 22.00 | 28.00 |

| | | | |
|--------------------|---------|-------|-------|
| Length, Inches | 15 | 18 | 21 |
| Open, Inches | 2 3/8 | 3 1/4 | 4 |
| Weight Dozen, Lbs. | 53 | 80 | 105 |
| Per Dozen | \$38.00 | 48.00 | 58.00 |

6 to 12 in., One-half Dozen; 15 and 18 in., One-third Dozen; 21 in., One-twelfth Dozen in a Package.

WRENCHES

TRIMO KNIFE HANDLE



With Patent Nut Guards

The Stationary Handle and Jaw are Drop Forged from One-piece High Grade Steel. Hardwood Grips securely attached to Handle.

| | | | | |
|-------------------|---------|-------|-------|-------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Open, Inches | 1 | 1 1/8 | 1 3/4 | 2 1/4 |
| Weight Each, Lbs. | 1 1/2 | 1 3/4 | 1 7/8 | 3 1/4 |
| Per Dozen | \$15.00 | 18.00 | 22.00 | 28.00 |

| | | | |
|-------------------|---------|-------|-------|
| Length, Inches | 15 | 18 | 21 |
| Open, Inches | 2 5/8 | 3 1/4 | 4 1/8 |
| Weight Each, Lbs. | 5 | 7 | 9 1/4 |
| Per Dozen | \$38.00 | 48.00 | 58.00 |

Six in a Box.

BEMIS & CALL SHORT NUT



No. 37—Merrick Pattern

One-piece Forged Steel Head, Bar and Shank, Black Finish, Hardwood Handle.

| | | | | | |
|--------------------|---------|-------|-------|-------|-------|
| Length, Inches | 8 | 10 | 12 | 15 | 18 |
| Open, Inches | 1 1/2 | 1 7/8 | 2 1/4 | 2 3/4 | 4 |
| Weight Dozen, Lbs. | 13 | 19 | 30 | 45 | 66 |
| Per Dozen | \$18.00 | 22.00 | 28.00 | 38.00 | 48.00 |

One-half Dozen in a Box.

BEMIS & CALL LONG NUT



No. 38—Briggs Pattern

One-piece Forged Steel Head, Bar and Shank, Black Finish, Hardwood Handle.

| | | | | | |
|--------------------|---------|-------|-------|-------|-------|
| Length, Inches | 8 | 10 | 12 | 15 | 18 |
| Open, Inches | 1 3/4 | 2 1/8 | 2 3/4 | 2 3/4 | 4 |
| Weight Dozen, Lbs. | 14 | 20 | 32 | 48 | 68 |
| Per Dozen | \$18.00 | 22.00 | 28.00 | 38.00 | 48.00 |

One-half Dozen in a Box.

AGRICULTURAL



Black Finish

Forged Steel Head, Bar and Shank, Steel Screw, Hardwood Handle.

| | | | | | |
|--------------------|---------|-------|-------|-------|-------|
| Length, Inches | 6 | 8 | 10 | 12 | 15 |
| Open, Inches | 7/8 | 1 1/8 | 1 3/4 | 1 3/4 | 2 1/8 |
| Weight Dozen, Lbs. | 9 | 14 | 20 | 28 | 40 |
| Per Dozen | \$10.00 | 12.00 | 14.00 | 18.00 | 24.00 |

One-half Dozen in a Package.

CRESCENT AUTO



Polished Finish

Forged Steel, Tempered. Spring under Adjusting Nut holds the Setting of the wrench after it has been adjusted.

| | | |
|------------------|--------|--------|
| Nos. | 019 | 0111 |
| Length, Inches | 9 | 11 |
| Open, Inches | 3 | 2 1/2 |
| Weight Each, Oz. | 14 | 24 1/2 |
| Per Dozen | \$9.00 | 15.00 |

One in a Box.

WRENCHES

BRIDGE BUILDERS



| Nos. | Lgth. Handle, Ft. | Size of Opening, Inches | | App. Wt., Lbs. | With 1 Gear, Each | Extra Gear, Each |
|------|-------------------|--------------------------------------|--------------------------------------|----------------|-------------------|------------------|
| | | Square | Hexagon | | | |
| 1 | 3 | 1, 1 1/8, 1 1/4, 1 1/2, 1 5/8, 1 3/4 | 1 1/8, 1 1/4, 1 1/2, 1 5/8, 1 3/4 | 11 | \$14.00 | \$2.00 |
| 2 | 3 | 1 1/4, 1 1/2, 1 5/8, 1 3/4, 2, 2 1/8 | 1 1/8, 1 1/4, 1 1/2, 1 5/8, 1 3/4 | 14 | 16.00 | 4.00 |
| 3 | 3 | 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4 | 2 1/8, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4 | 23 | 24.00 | 6.00 |
| 4 | 3 1/2 | 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4 | 2 1/8, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4 | 32 | * | * |
| 5 | 3 1/2 | 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2 | 3 1/8, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4 | 40 | * | * |

*These sizes made to order. Prices on application.

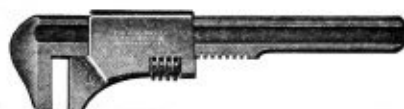
LOWELL RATCHET



This wrench can be changed to a right or left hand motion at pleasure by rotating the knurled nut at the end of the handle.

| Nos. | Lgth. Handle, Inches | Size of Opening, Inches | | With 1 Gear, Each | Extra Gear, Each |
|-------|----------------------|--|--|-------------------|------------------|
| | | Square | Hexagon | | |
| 0 | 7 | 3/4, 7/8, 1 | 1/2, 5/8 | \$ 5.00 | \$1.00 |
| 1 | 10 | 5/8 taper, 3/4, 1 1/8, 1 1/4 | 5/8, 3/4, 7/8, 1 | 6.00 | 1.00 |
| 2 | 12 | 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 1/2 | 7/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4 | 7.00 | 1.25 |
| 3 | 15 | 7/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2 | 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2 | 9.00 | 1.50 |
| 3 1/2 | 18 | 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/8 | 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/8 | 10.00 | 1.50 |
| 4 | 18 | 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/8, 2 1/4 | 1 1/4, 1 1/2, 1 3/4, 2, 2 1/8, 2 1/4, 2 1/2 | 12.00 | 2.00 |
| 4 1/2 | 24 | 1 1/4, 1 1/2, 1 3/4, 2, 2 1/8, 2 1/4, 2 1/2, 2 3/4 | 1 1/2, 1 3/4, 2, 2 1/8, 2 1/4, 2 1/2, 2 3/4, 2 1/2 | 14.00 | 2.00 |

BILLINGS & SPENCER AUTO



Duro Black Rust Proof Finish

Drop Forged Steel, Specially Heat Treated.

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|-----------------------|--------|-------|--------|--------|--------|--------|
| Length, Inches | 6 1/2 | 8 | 10 3/4 | 12 1/4 | 14 3/4 | 18 1/4 |
| Open, Inches | 1 1/8 | 1 1/4 | 2 1/8 | 2 3/4 | 3 | 3 3/4 |
| Thickness Jaw, Inches | 1/8 | 3/8 | 7/8 | 1 1/8 | 1 1/4 | 3/4 |
| Depth Jaw, Inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 |
| Weight Each, Lbs. | 1 1/2 | 1 3/4 | 2 1/4 | 3 | 3 3/4 | 6 1/2 |
| Each | \$1.15 | 1.50 | 1.90 | 2.40 | 3.00 | 4.00 |

One in a Box.

MOSSBERG AUTO



Mottled Finish

Forged Steel, Hardened, with Tempered Jaws.

| Nos. | K7 | K9 | K11 |
|------------------------|--------|--------|-------|
| Length, Inches | 7 | 9 | 11 |
| Opens, Inches | 1 1/4 | 1 3/4 | 2 1/2 |
| Thickness Jaws, Inches | 3/8 | 1/2 | 5/8 |
| Weight Each, Oz. | 9 | 13 1/4 | 22 |
| Each | \$0.60 | 1.10 | 1.35 |

One in a Box.

WRENCHES

BILLINGS & SPENCER BICYCLE



Nickel Plated

Drop Forged Steel, Hardened Jaws, Telescoping Handle.

No. 97—4 1/4 in. Long. Opens 1 1/8 in. Jaws 1/4 in. Thick, Weight Each 6 Oz. \$1.00
One in a Box.

STERLING BICYCLE

Satin Finish



Forged Steel, Nicely Finished.

No. 1—5 in. Long. Opens 1 1/4 in. Weight Each 4 3/4 Oz. \$4.00
One in a Box.

BEMIS & CALL ADJUSTABLE "S" NUT

No. 48—Japanned Handle, Polished Head



Drop Forged Steel Sliding Jaw, Steel Operating Nut, Carefully Hardened and Tempered Parts.

| Length, Inches | 6 | 8 | 10 | 12 |
|--------------------|--------|-------|-------|-------|
| Opens, Inches | 3/4 | 1 | 1 1/8 | 1 1/4 |
| Weight Dozen, Lbs. | 5 1/2 | 12 | 22 | 33 |
| Per Dozen | \$8.00 | 10.00 | 12.00 | 18.00 |

One-half Dozen in a Box.

ROBINSON ADJUSTABLE "S"

Drop Forged Steel

Sliding Jaw, Steel Operating Nut, Carefully Hardened and Tempered Parts, Dull Black Handle, Full Polished Head.



| Nos. | 6R | 8R | 10R |
|------------------------|---------|-------|-------|
| Length, Inches | 6 | 8 | 10 |
| Jaws Open, Inches | 3/4 | 1 | 1 1/8 |
| Weight Per Dozen, Lbs. | 4 | 12 | 20 |
| Per Dozen | \$12.00 | 15.00 | 20.00 |

One-half Dozen in a Box.

WESTCOTT ADJUSTABLE "S"

"Keystone Westcott"

For Nuts



Malleable Iron Handle, Forged Steel Jaws, Japanned.

| Nos. | 74 | 76 | 78 | 80 | 82 | 84 |
|-----------------|--------|-------|-------|--------|-------|-------|
| Length, Inches | 4 | 6 | 8 | 10 | 12 | 14 |
| Opens, Inches | 1/2 | 3/4 | 1 | 1 1/8 | 1 1/4 | 2 |
| Wt. Dozen, Lbs. | 2 | 5 1/4 | 11 | 19 1/2 | 33 | 51 |
| Per Dozen | \$8.00 | 8.00 | 10.00 | 12.00 | 18.00 | 24.00 |

One-half Dozen in a Box.

BEMIS & CALL ADJUSTABLE "S" PIPE

No. 50—For Pipe

Malleable Iron Handles, Forged Tool Steel Jaws.



| Length, Inches | 6 | 8 | 10 |
|--------------------|--------------|----------------|----------------|
| Takes Pipe, Inches | 1/2 to 1 1/2 | 1 1/2 to 2 1/4 | 2 1/4 to 3 1/2 |
| Weight Dozen, Lbs. | 5 1/2 | 13 | 23 |
| Per Dozen | \$8.00 | 10.00 | 12.00 |

One-half Dozen in a Box.

WRENCHES

CRESCENT ADJUSTABLE



Forged from Special Heat Treated Alloy Steel

Hardened, Carbonized and Oil Tempered, Polished Jaws, Head and Raised Edges.

| Nos. | A14 | A16 | A18 | A110 |
|------------------------|----------------|----------------|----------------|----------------|
| Length, Inches | 4 | 6 | 8 | 10 |
| Capacity, Inches | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ |
| Weight Per Dozen, Lbs. | $1\frac{1}{2}$ | $3\frac{3}{4}$ | $7\frac{1}{2}$ | 14 |
| Per Dozen | \$9.35 | 9.35 | 11.50 | 14.40 |
| Nos. | A112 | A115 | A118 | |
| Length, Inches | 12 | 15 | 18 | |
| Capacity, Inches | $1\frac{1}{2}$ | $1\frac{3}{4}$ | $2\frac{1}{2}$ | |
| Weight Per Dozen, Lbs. | 24 | 52 | 84 | |
| Per Dozen | \$21.60 | 32.40 | 46.80 | |

One in a Box.

CRESCENT DOUBLE-END ADJUSTABLE



Forged from Special Heat Treated Alloy Steel

Hardened, Carbonized and Oil Tempered, Polished Jaws, Head and Raised Edges.

| Nos. | B146 | B168 | B1810 | B11012 |
|------------------|--------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Size, Inches | 4 to 6 | 6 to 8 | 8 to 10 | 10 to 12 |
| Capacity, Inches | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{3}{4}$ to $1\frac{1}{2}$ | $1\frac{1}{2}$ to $1\frac{3}{4}$ | $1\frac{3}{4}$ to $1\frac{5}{8}$ |
| Wt. Doz., Lbs. | $4\frac{1}{2}$ | $8\frac{1}{4}$ | $14\frac{1}{4}$ | 27 |
| Per Dozen | \$15.85 | 18.00 | 21.60 | 28.80 |

One in a Box.

PARTS FOR CRESCENT ADJUSTABLE WRENCHES



No. 2. No. 3. No. 5. No. 4.

These Parts Fit Either Single or Double End Wrenches.

| For Wrench, Inches | 4 | 6 | 8 | 10 |
|------------------------|-------------------|----------------|----------------|---------------|
| No. 2—Jaw | Per Dozen, \$3.00 | 3.00 | 3.60 | 4.80 |
| Weight Per Dozen, Lbs. | $\frac{1}{2}$ | 1 | 2 | 3 |
| No. 3—Thumb Nut | Per Dozen, \$1.20 | 1.20 | 1.44 | 1.80 |
| Weight Per Dozen, Oz. | 1 | 2 | 4 | 6 |
| No. 4—Pin | Per Dozen, \$0.60 | .60 | .60 | .60 |
| Weight Per Dozen, Oz. | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 2 |
| No. 5—Spring | Per Dozen, \$0.60 | .60 | .60 | .60 |
| Weight Per Dozen, Oz. | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| For Wrench, Inches | 12 | 15 | 18 | |
| No. 2—Jaw | Per Dozen, \$7.20 | 10.20 | 13.80 | |
| Weight Per Dozen, Lbs. | $4\frac{1}{2}$ | 11 | 18 | |
| No. 3—Thumb Nut | Per Dozen, \$3.00 | 4.20 | 6.60 | |
| Weight Per Dozen, Lbs. | $\frac{3}{8}$ | $1\frac{1}{4}$ | $2\frac{1}{4}$ | |
| No. 4—Pin | Per Dozen, \$1.20 | 1.20 | 1.20 | |
| Weight Per Dozen, Oz. | 4 | 6 | 14 | |
| No. 5—Spring | Per Dozen, \$0.60 | .60 | .60 | |
| Weight Per Dozen, Oz. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | |

CARLL ADJUSTABLE



Jaws Reversible for Either Nuts or Pipe

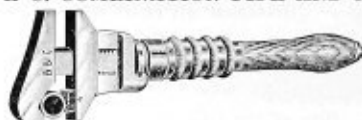
Drop Forged Steel, Hardened and Tempered.

| Nos. | 60 | 80 | 100 |
|-------------------|----------------|----------------|----------------|
| Length, Inches | 6 | 8 | 10 |
| Jaws Open, Inches | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ |
| Weight Each, Oz. | 6 | 15 | 22 |
| Per Dozen | \$10.00 | 12.00 | 15.00 |

One-half Dozen in a Box.

PIPE WRENCHES

B. & C. COMBINATION PIPE AND NUT



No. 45—Long Nut, Polished

Forged One-Piece Solid Steel Head, Bar and Shank, Hardwood Handle.

| Length, Inches | 8 | 10 | 12 | 15 | 18 |
|-----------------|--------------------------------|--------------------|---------------------------------|---------------------------------|--------------------|
| Takes Pipe, In. | $\frac{1}{4}$ to $\frac{3}{4}$ | $\frac{1}{4}$ to 1 | $\frac{1}{2}$ to $1\frac{1}{4}$ | $\frac{1}{2}$ to $2\frac{1}{4}$ | $\frac{1}{2}$ to 3 |
| Wt. Dozen, Lbs. | 16 | 25 | 38 | 55 | 84 |
| Per Dozen | \$27.00 | 30.00 | 36.00 | 48.00 | 87.00 |

The long nut affords better grip for hand and can be adjusted in cold weather without removing glove or mitten. It also protects the threads and prevents it from being damaged.

One-half Dozen in a Box.

WARNOCK TRIPLE WEAR



For Smooth Pipe

For Plumbers, Engineers and Machinists Use, Flexible Woven Strap, Drop Forged Steel Shackles, Curved Nose, Won't Crush Pipe, Double Strap where Wear is Greatest, Unbreakable Handle, Enameled Finish.

| Nos. | 12 | 18 |
|--------------------|--------------------|--------|
| Takes Pipe, Inches | $\frac{1}{8}$ to 2 | 1 to 5 |
| Length, Inches | 12 | 18 |
| Each | \$2.50 | 5.00 |
| Extra Straps | Each, .50 | 1.00 |

Two added holes gives this Wrench three wearing positions for each strap. One in a Box.

VICTOR ADJUSTABLE



With Interchangeable Jaw

Drop Forged Tool Steel, Nickel Plated. Per Dozen No. 365—7 in. Long, Weight Per Dozen 9 Lbs. \$18.00 One in a Box.

BULL DOG

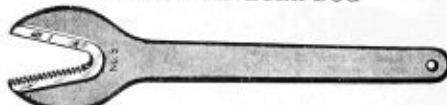


High Grade Carbon Steel, Oil Tempered Each

| | |
|--|--------|
| No. 1—5 $\frac{1}{4}$ in. Long, Takes Pipe $\frac{1}{8}$ to $\frac{3}{8}$ in., Round Iron, $\frac{1}{4}$ to $\frac{3}{4}$ in., Weight Per Dozen 3 Lbs. | \$0.35 |
| No. 1 $\frac{1}{2}$ —5 $\frac{1}{2}$ in. Long, Takes Pipe $\frac{1}{8}$ to $\frac{3}{8}$ in., Round Iron $\frac{3}{8}$ to $\frac{1}{2}$ in., Weight Per Dozen 3 $\frac{1}{2}$ Lbs. | \$0.50 |

Six in a Box.

SINGLE END BULL DOG



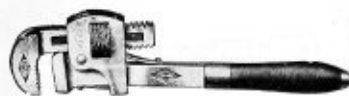
Drop Forged High Carbon Steel, Oil Tempered

| Nos. | 2 | 2 $\frac{1}{2}$ | 3 |
|------------------------|--------------------------------|---------------------------------|----------------------------------|
| Length, Inches | 9 | 12 $\frac{1}{2}$ | 16 |
| Holds Pipe, Inches | $\frac{3}{8}$ to $\frac{3}{4}$ | $\frac{3}{8}$ to 1 | $\frac{1}{2}$ to $1\frac{1}{4}$ |
| Holds Round Iron, In. | $\frac{1}{2}$ to 1 | $\frac{1}{2}$ to $1\frac{1}{2}$ | $\frac{3}{4}$ to 1 $\frac{3}{4}$ |
| Weight Per Dozen, Lbs. | 12 | 24 | 36 $\frac{1}{4}$ |
| Each | \$1.00 | 1.50 | 2.00 |

Open Stock.

PIPE WRENCHES

GENUINE STILLSON WOOD HANDLE



No. 100—Drop Forged Steel.

Polished Jaw and Frame, Tested Steel Springs.

| Length, Inches | 6 | 8 | 10 | 14 |
|---------------------|--------------------------------|--------------------------------|--------------------|---------------------------------|
| Takes Pipe, Inches. | $\frac{1}{8}$ to $\frac{1}{2}$ | $\frac{1}{8}$ to $\frac{3}{4}$ | $\frac{1}{8}$ to 1 | $\frac{1}{4}$ to $1\frac{1}{2}$ |
| Weight Each, Lbs. | $\frac{3}{8}$ | $\frac{11}{16}$ | $1\frac{1}{2}$ | $2\frac{3}{4}$ |
| Each | \$2.00 | 2.25 | 2.50 | 3.50 |

Six in a Box.

GENUINE STILLSON STEEL HANDLE



No. 200—Drop Forged Steel.

Polished Jaw and Frame, Tested Steel Springs.

| Length, Inches | 8 | 10 | 14 | 18 |
|---------------------|--------------------------------|--------------------|---------------------------------|--------------------|
| Takes Pipe, Inches. | $\frac{1}{8}$ to $\frac{3}{4}$ | $\frac{1}{8}$ to 1 | $\frac{1}{4}$ to $1\frac{1}{2}$ | $\frac{1}{4}$ to 2 |
| Weight Each, Lbs. | $\frac{3}{4}$ | $1\frac{1}{2}$ | $2\frac{3}{4}$ | $4\frac{1}{4}$ |
| Each | \$2.25 | 2.50 | 3.50 | 5.00 |

| Length, Inches | 24 | 36 | 48 |
|---------------------|---------------------------------|---------------------------------|--------|
| Takes Pipe, Inches. | $\frac{1}{4}$ to $2\frac{1}{2}$ | $\frac{1}{2}$ to $3\frac{1}{2}$ | 1 to 5 |
| Weight Each, Lbs. | $7\frac{1}{4}$ | 15 | 24 |
| Each | \$7.25 | 13.50 | 20.00 |

8 to 24 in., Six in a Box; 36 and 48 in., Open Stock.

AUTOMOBILE STILLSON



No. 300—Drop Forged Steel.

Extra Thin Jaw, Polished Jaw and Frame, Tested Steel Springs.

| Length, Inches | 8 | 10 |
|---------------------|--------------------------------|--------------------|
| Takes Pipe, Inches. | $\frac{1}{8}$ to $\frac{3}{4}$ | $\frac{1}{8}$ to 1 |
| Weight Each, Lbs. | $\frac{11}{16}$ | $1\frac{1}{2}$ |
| Each | \$2.25 | 2.50 |

Six in a Box.

PARTS FOR STILLSON PATTERN PIPE WRENCHES



Front Jaw. Frame. Nut. Wood Handle.

| For Wrench, Inches | 6 | 8 | 10 | 14 |
|--------------------|--------------|------|------|------|
| Jaws | Each, \$0.75 | .80 | .85 | 1.15 |
| Frame | Each, .38 | .42 | .50 | .60 |
| Nuts | Each, .12 | .15 | .20 | .30 |
| Wood Handles | Each, .16 | .16 | .18 | .25 |
| Steel Bars | Each, .95 | 1.00 | 1.10 | 1.50 |
| Springs | Per Set, .10 | .10 | .10 | .10 |
| Frame Pins | Each, .03 | .03 | .04 | .04 |
| End Handle Nuts | Each, .09 | .09 | .20 | .20 |

| For Wrench, Inches | 18 | 24 | 36 | 48 |
|--------------------|--------------|------|------|-------|
| Jaws | Each, \$1.75 | 2.25 | 4.35 | 7.50 |
| Frame | Each, .75 | .95 | 1.70 | 2.20 |
| Nuts | Each, .35 | .55 | 1.10 | 1.50 |
| Steel Bars | Each, 2.25 | 3.50 | 7.00 | 10.50 |
| Springs | Per Set, .10 | .13 | .13 | .13 |
| Frame Pins | Each, .04 | .05 | .05 | .05 |

PIPE WRENCHES

TRIMO STEEL HANDLE



Nut with Guards Inserted.



Drop Forged from Selected Bar Steel.

Equipped with Steel Nut Guards which Prevent Accidental Rotation of the Adjustable Nut while in Use.

Movable Jaw and Nut made with Round Top and Bottom Threads Guaranteed not to Strip or Burr.

| Length Open, Inches | 6 | 8 | 10 | 14 |
|---------------------|--------------------------------|--------------------------------|--------------------|---------------------------------|
| Takes Pipe, Inches. | $\frac{1}{8}$ to $\frac{1}{2}$ | $\frac{1}{8}$ to $\frac{3}{4}$ | $\frac{1}{8}$ to 1 | $\frac{1}{4}$ to $1\frac{1}{2}$ |
| Weight Each, Lbs. | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{2}$ | 3 |
| Each | \$2.00 | 2.25 | 2.50 | 3.50 |

| Length Open, Inches | 18 | 24 | 36 | 48 |
|---------------------|--------------------|---------------------------------|---------------------------------|--------|
| Takes Pipe, Inches. | $\frac{1}{4}$ to 2 | $\frac{1}{4}$ to $2\frac{1}{2}$ | $\frac{1}{2}$ to $3\frac{1}{2}$ | 1 to 5 |
| Weight Each, Lbs. | 5 | $8\frac{1}{2}$ | 16 | 24 |
| Each | \$5.00 | 7.25 | 13.50 | 20.00 |

6 to 24 in., Six in a Box; 36 and 48 in., Open Stock.

TRIMO WOOD HANDLE



Ebony Finished Hardwood Handle.

Steel Frame and Jaws, Polished Head with Steel Nut Guards Preventing Accidental Rotation of Adjusting Nut in Close-quarter Work.

| Length, Inches | 6 | 8 | 10 | 14 |
|---------------------|--------------------------------|--------------------------------|--------------------|---------------------------------|
| Takes Pipe, Inches. | $\frac{1}{8}$ to $\frac{1}{2}$ | $\frac{1}{8}$ to $\frac{3}{4}$ | $\frac{1}{8}$ to 1 | $\frac{1}{4}$ to $1\frac{1}{2}$ |
| Weight Each, Lbs. | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{2}$ | 3 |
| Each | \$2.00 | 2.25 | 2.50 | 3.50 |

Six in a Box.

PARTS FOR TRIMO PIPE WRENCHES



Movable Jaw, Inserted Jaw, Spring and Pin.



Frame.



Nut.

| For Wrench, Inches | 6 | 8 | 10 | 14 |
|--------------------|---------------|------|------|------|
| Movable Jaws | Each, \$0.75 | .80 | .85 | 1.15 |
| Inserted Jaws | Each, .35 | .40 | .50 | .60 |
| Frames | Each, .40 | .45 | .55 | .70 |
| Nuts | Each, .12 | .15 | .20 | .30 |
| Springs | Each, .03 | .03 | .03 | .03 |
| Frame Pins | Each, .03 | .03 | .04 | .04 |
| Jaw Pins | Each, .03 | .03 | .04 | .04 |
| Steel Handles | Each, .95 | 1.00 | 1.10 | 1.50 |
| Nut Guards | Per Pair, .15 | .15 | .20 | .30 |

| For Wrench, Inches | 18 | 24 | 36 | 48 |
|--------------------|---------------|------|------|-------|
| Movable Jaws | Each, \$1.75 | 2.25 | 4.35 | 7.50 |
| Inserted Jaws | Each, .70 | .80 | 1.10 | 2.00 |
| Frames | Each, .95 | 1.40 | 2.20 | 2.70 |
| Nuts | Each, .35 | .55 | 1.10 | 1.50 |
| Springs | Each, .04 | .04 | .04 | .04 |
| Frame Pins | Each, .04 | .04 | .05 | .05 |
| Jaw Pins | Each, .04 | .04 | .05 | .05 |
| Steel Handles | Each, 2.25 | 3.50 | 7.00 | 10.50 |
| Nut Guards | Per Pair, .35 | .45 | .55 | .65 |

PIPE WRENCHES

LITTLE GIANT



8 and 10 in. Sizes.



14 to 24 in. Sizes.



Showing Different Ways of Engaging Jaws.

Drop Forged Steel, Heat Treated and Tempered

Practically indestructible, powerful and easy to handle. Can be put straight to a pipe like a pair of pliers and will reach corners and cramped positions ordinarily out of reach.

They have only three parts, there is nothing to break, no clumsy frame, no nuts, pins or springs. This new design makes it possible to reach pipe, rods, nuts, etc., in ordinary inaccessible places.

There are double sets of teeth on the 8 and 10 in. sizes and quadruple sets on the 14 in. size, increasing the life of the "Little Giant" two and four times.

| Size, Inches | 8 | 10 | 14 | 18 | 24 |
|--------------------|---------------|-----------------|-----------------|-----------------|-----------------|
| Takes Pipe, Inches | $\frac{3}{4}$ | 1 | 1 $\frac{1}{2}$ | 2 | 2 $\frac{1}{2}$ |
| Weight Each, Lbs. | $\frac{1}{2}$ | 1 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 7 $\frac{1}{2}$ |
| Each | \$2.25 | 2.50 | 3.50 | 5.00 | 7.25 |

Six in a Box.

CHAIN PIPE WRENCHES

BILLINGS & SPENCER



Reversible, Double Action

The pipe may be turned in either direction instantly without removing the wrench or loosening the chain.

It can be instantly converted to a fitting wrench by simply removing outer jaws.

The Jaws are double ended and reversible, doubling the life of the wrench.

Handle and Jaws Drop Forged from Special Open Hearth Steel, and Heat Treated. Handles have natural Oil Finish, Jaws have "Duro" Black Rust-proof Finish with Red-painted Panels.

| Nos. | 14 | 20 | 27 |
|-----------------------|--------------------------------|----------------------------------|----------------------------------|
| Trade Nos. | 30 | 31 | 32 |
| Takes Pipe, Inches | $\frac{1}{2}$ to $\frac{3}{4}$ | $\frac{1}{2}$ to 1 $\frac{1}{2}$ | $\frac{1}{2}$ to 2 $\frac{1}{2}$ |
| Length, Inches | 14 | 20 | 27 |
| Length Chain, Inches | 8 | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$ |
| Breaking Strain, Lbs. | 3600 | 6700 | 9800 |
| Weight Each, Lbs. | 3 | 6 | 10 $\frac{1}{2}$ |
| Each | \$5.00 | 7.00 | 10.00 |

| Nos. | 37 | 47 | 57 |
|-----------------------|--------------------|------------------|----------------------|
| Trade Nos. | 33 | 33 $\frac{1}{2}$ | 34 |
| Takes Pipe, Inches | $\frac{3}{4}$ to 4 | 1 to 6 | 1 $\frac{1}{2}$ to 8 |
| Length, Inches | 37 | 47 | 57 |
| Length Chain, Inches | 20 $\frac{3}{4}$ | 30 $\frac{1}{4}$ | 41 |
| Breaking Strain, Lbs. | 12500 | 14300 | 15700 |
| Weight Each, Lbs. | 19 | 28 | 42 |
| Each | \$14.00 | 18.00 | 22.00 |

Note—Above list is for wrenches with flat chain, they can also be furnished with cable chain when so ordered.

PIPE CUTTERS

BARNES PATTERN



With Three Cutters

| Nos. | 1B | 2B | 3B | 4B | 5B |
|--------------------|--------------------|--------------------|----------------------|----------------------|--------|
| Length, Inches | 13 | 16 | 21 | 25 | 34 |
| Cuts Pipe, Inches | $\frac{1}{2}$ to 1 | $\frac{1}{2}$ to 2 | 1 $\frac{1}{2}$ to 3 | 2 $\frac{1}{2}$ to 4 | 4 to 6 |
| Weight Each, Lbs. | 3 | 4 $\frac{1}{4}$ | 8 | 12 $\frac{1}{2}$ | 20 |
| Each | \$4.50 | 6.00 | 10.00 | 20.00 | 30.00 |
| Extra Cutters, Ea. | .25 | .30 | .40 | .50 | .75 |
| Extra Pins, Doz. | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 |

SAUNDERS PATTERN



With One Cutter and Two Rollers

Japanned Malleable Iron Shank and Frame, Steel Handle, Tool Steel Cutters and Rollers.

| Nos. | 1S | 2S | 3S | 4S |
|---------------------|--------------------|-----------------|------------------|----------------------|
| Length, Inches | 16 | 20 | 26 | 28 |
| Cuts Pipe, Inches | $\frac{1}{2}$ to 1 | 1 to 2 | 2 to 3 | 2 $\frac{1}{2}$ to 4 |
| Weight Each, Lbs. | 3 | 6 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 15 |
| Each | \$3.00 | 4.50 | 11.00 | 18.00 |
| Extra Cutters, Each | .24 | .32 | .60 | .60 |
| Extra Rollers, Each | .24 | .32 | .50 | .50 |
| Extra Pins, Each | .10 | .10 | .15 | .15 |

TRIMO



A "One" and "Three" Wheel Pipe Cutter

Drop Forged Steel Frame, Tool Steel Wheels, Steel Handle and Screw.

| Nos. | 1T | 2T | 3T |
|------------------------------------|----------------------------------|--------------------|------------------|
| Length, Inches | 15 $\frac{3}{4}$ | 17 $\frac{1}{2}$ | 19 $\frac{1}{2}$ |
| Cuts Pipe, Inches | $\frac{1}{2}$ to 1 $\frac{1}{4}$ | $\frac{1}{2}$ to 2 | 1 to 3 |
| Weight Each, Lbs. | 5 $\frac{1}{4}$ | 6 | 8 $\frac{3}{4}$ |
| Each | \$4.50 | 6.00 | 10.00 |
| Extra Cut, Wheels, Each | .60 | .60 | .90 |
| Extra Pins with Cutters, Per Dozen | 1.30 | 1.30 | 1.30 |

The Trimo Pipe Cutter is two tools in one. It is furnished with three wheels and two rollers. The rollers and wheels are interchangeable so that the tool may be used as a one or three wheel pipe cutter. Takes less than two minutes to make the change.

One in a Box.

BEAVER SQUARE-END



With Three Sets of Cutting Knives

Rigid Steel Frame with Fixed "V" Centering Jaw and a movable "V" Centering Jaw operated by the screw handle. Cutting Knives are backed up by heavy coil spring which compresses Knives on pipe making it self-feeding.

These cutters cut off pipe square without leaving burrs.

| Nos. | 1 | 5 |
|-------------------|--------------------|--------------------|
| Cuts Pipe, Inches | $\frac{1}{2}$ to 1 | $\frac{1}{2}$ to 2 |
| Weight Each, Lbs. | 7 | 13 |
| Each | \$18.00 | 20.00 |
| Extra Knives | Per Set, 1.20 | 1.50 |

WRENCHES

BILLINGS & SPENCER SPANNER



Model L, Adjustable

Drop Forged Steel, Dull Black Finish.

To adjust it is only necessary to press on the top of the movable jaw and slide it into its new position.

The bar is drop forged and the moving jaw is made of alloy steel, hardened all over under scientific heat controls.

A most necessary set for all machine shops and manufacturing plants.

| Nos. | 0 | 1 | 2 | 3 |
|----------------------|----------|--------|--------|------------|
| Length, Inches | 7 | 9 | 9 | 10 1/4 |
| Takes Circle, Inches | 3/4 to 2 | 2 to 4 | 2 to 4 | 2 to 4 3/4 |
| Diameter Pin, Inches | 3/8 | 1/4 | 3/8 | 1/4 - 3/8 |
| Length Pin, Inches | 1 1/2 | 1 1/4 | 1 1/4 | 1 1/4 |
| Weight Each, Oz. | 4 | 8 | 10 | 21 |
| Each | \$0.70 | .75 | .85 | 1.25 |

One in a Box.

RONSON



Nine Wrenches in One

Tool Steel, Tempered, Rust Proof Nickel Finish.

No. R9—6 in. Long Closed, 8 in. Long Open, 1/2 in. Thick, Weight Each 8 Oz. Each \$1.00
One in a Box.

PEXTO RADIO SOCKET



With Ebonized Hardwood Handle
Bright Hexagon Steel Shanks, Hardened Steel Sockets.

No. 1 Set—Consists of 1 Handle and 5 Interchangeable Sockets for Hex Nuts, Sizes 1/4, 3/8, 1/2 and 3/4 in. and 1 1/2 in.

One Spanner Socket for Knurled Nuts, Length of Shank 2 1/4 in., Weight Per Set 4 Oz. \$0.90
One Set in a Box.

BIT BRACE SOCKET WRENCHES

BILLINGS & SPENCER



For Hexagon Nuts and Cap Screws

Drop Forged Steel, Dull Black Finish, with Standard Brace Shank.

| Nos. | 921A | 922A | 922B | 922C | 923A | 924A | 924B |
|-------------------------|--------|-------|-------|-------|-------|-------|-------|
| U. S. S. Nut | 1/8 | 1/8 | 1/8 | 1/8 | 1/4 | 3/8 | 1/2 |
| H. H. Cap Screw | 1/8 | 1/8 | 1/8 | 1/8 | 1/4 | 3/8 | 1/2 |
| S. A. E. Nuts or Screws | 1/8 | 1/8 | 1/8 | 1/8 | 1/4 | 3/8 | 1/2 |
| Openings, Inches | 1 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 3 1/2 | 4 1/2 | 5 1/2 |
| Length, Inches | 4 | 4 1/2 | 4 1/2 | 4 1/2 | 4 3/4 | 5 1/4 | 5 3/4 |
| Diam. Head, In. | 1 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 3 | 4 | 4 |
| Wt. Each, Oz. | 1 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 3 | 4 | 4 |
| Each | \$0.80 | .88 | .98 | .98 | 1.04 | 1.16 | 1.16 |

| Nos. | 925A | 925B | 925C | 926A | 926B | 926C |
|-------------------------|--------|-------|-------|-------|-------|-------|
| U. S. S. Nut | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 |
| H. H. Cap Screw | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 |
| S. A. E. Nuts or Screws | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 | 1/8 |
| Opening, Inches | 1 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 |
| Length, Inches | 5 | 6 | 6 | 7 | 7 1/2 | 7 1/2 |
| Diameter Head, Inches | 1 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| Weight Each, Oz. | 5 | 6 | 6 | 7 | 7 1/2 | 7 1/2 |
| Each | \$1.26 | 1.42 | 1.42 | 1.54 | 1.54 | 1.74 |

BRACE WRENCHES

HARGRAVE SQUARE



Malleable Iron, Hardened

| Nos. | 152 | 153 | 154 | 156 | 1560 |
|--------------------|--------|-------|-------|-------|-------|
| Opening, Inches | 3/8 | 1/2 | 1/2 | 5/8 | 1 1/2 |
| Bolt Size Nut | 3/8 | 1/2 | 1/2 | 5/8 | 3/4 |
| Lag Screw Size | 3/4 | 1 | 1 1/2 | 1 1/2 | 1 1/2 |
| Set Screw Size | 3/8 | 1/2 | 1/2 | 5/8 | 1 |
| Weight Dozen, Lbs. | 1 1/2 | 1 3/4 | 2 3/4 | 3 1/4 | 3 1/2 |
| Per Dozen | \$3.50 | 4.00 | 4.50 | 6.00 | 6.50 |

| Nos. | 158 | 159 | 160 | 161 |
|--------------------|--------|-------|-------|-------|
| Opening, Inches | 3/8 | 1 | 1 1/4 | 1 1/4 |
| Bolt Size Nut | 1/2 | 1 1/4 | 1 1/4 | 3/4 |
| Law Screw Size | 1/2 | 5/8 | 3/4 | 1 |
| Set Screw Size | 3/8 | 1 | 1 1/4 | 1 1/4 |
| Weight Dozen, Lbs. | 2 1/2 | 3 1/4 | 4 1/4 | 4 5/8 |
| Per Dozen | \$7.50 | 8.00 | 9.00 | 10.00 |

Nos. 152 to 1560, One Dozen; Nos. 158 to 161, One-half Dozen in a Box.

HARGRAVE HEXAGON



Malleable Iron, Hardened

| Nos. | 166 | 167 | 168 | 169 | 170 |
|--------------------|--------|-------|-------|-------|-------|
| Opening, Inches | 3/8 | 1/2 | 1/2 | 3/4 | 5/8 |
| Bolt Size Nut | 3/8 | 1/2 | 1/2 | 3/4 | 5/8 |
| Cap Screw Size | 1/2 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 |
| Weight Dozen, Lbs. | 1 1/2 | 1 5/8 | 1 5/8 | 2 | 2 1/2 |
| Per Dozen | \$3.50 | 4.00 | 4.50 | 5.00 | 6.00 |

| Nos. | 172 | 173 | 1731 | 1732 | 1733 |
|--------------------|--------|-------|-------|-------|-------|
| Opening, Inches | 3/8 | 1/2 | 1 | 1 1/4 | 1 1/4 |
| Bolt Size Nut | 3/8 | 1/2 | 1 | 1 1/4 | 1 1/4 |
| Cap Screw Size | 1/2 | 1 1/4 | 1 1/4 | 1 1/4 | 1 |
| Weight Dozen, Lbs. | 1 1/2 | 2 1/8 | 2 1/8 | 3 1/8 | 3 1/8 |
| Per Dozen | \$7.00 | 7.50 | 8.00 | 9.00 | 10.00 |

Nos. 166 to 171, One Dozen; Nos. 172 to 1733, One-half Dozen in a Box.

BIT WRENCHES
HARGRAVE IMPROVED

For Brace Wrenches or Regular Brace Bits

The center socket holds bit rigid by means of the pointed screw. The end socket is used when leverage is required.

Per Dozen
No. 149—Weight Per Dozen
4 Lbs. \$4.00

SOCKET WRENCH HANDLES



MOSSBERG TAKE DOWN T HANDLE

Made of 1/2 in. Special Bar Steel, Burnished Nickel Finish. Each
No. 340—10 in. Long, 7 in. Wide,
Weight 1 1/4 Lbs. \$0.75

MOSSBERG INTERCHANGEABLE,
DOUBLE-END OFFSET HANDLE

For Use with Interchangeable Sockets Each
No. 322—10 in. Long, 1/2 in. Special Steel Bar, Burnished Nickel Finish, Fits Mossberg Standard Sockets, Weight Each 12 Oz. \$0.35

WRENCH SOCKETS

MOSSBERG INTERCHANGEABLE



Small Series Sockets

For owner work there are no wrenches which compare with drawn steel sockets at as low a price, and these Mossberg drawn steel sockets that have been on the market for twenty years are quite guaranteed.

Small Series Sockets are marked to exact opening of sockets. The marking of each socket represents the short diameter of nuts, bolt heads and screw heads plus the clearance.

Construction—Drawn by pressure from cold rolled steel, thereby retaining the necessary long grain in structure.

Finish—Mottled and lacquered.

Complete List of Small Series Sockets
Hexagon

| Socket Opening Size Hex. Inches | Fitting | | |
|---|---|--|---|
| | U. S. Std. Nuts and Bolts. Bolt Size Inches | S. A. E. Standard Screws. Screw Size Inches | Hex. Head Cap Screws. Screw Size Inches |
| 1/16 | | | |
| 1/8 | | | |
| 3/16 | | | |
| 1/4 | | | |
| 5/16 | | | |
| 3/8 | | | |
| 7/16 | | | |
| 1/2 | | | |
| 5/8 | | | |
| 3/4 | | | |
| 7/8 | | | |
| 1 | | | |
| 1 1/8 | | | |
| 1 1/4 | | | |
| 1 3/8 | | | |
| 1 1/2 | | | |
| 1 3/4 | | | |
| 2 | | | |
| 2 1/4 | | | |
| 2 1/2 | | | |
| 2 3/4 | | | |
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| 3 1/4 | | | |
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ENGINEERS WRENCHES

BILLINGS & SPENCER



15 Degree Angle, Double Head.

Drop Forged Steel, Dull Black Finish, Polished Heads, Hardened.

The heads of the Wrenches are plainly marked showing the purpose for which they are intended.

| Nos. | Trade Nos. | U. S. Standard Bolt Size | Hexagon Head Cap Screw Size | S. A. E. Standard Screw and Nut | Milled Opening, Inches | Length, Inches | Thick-ness of Head, Inches | Weight | | Each |
|-------|------------|--------------------------|-----------------------------|---------------------------------|------------------------|----------------|----------------------------|--------|--------|--------|
| | | | | | | | | Lbs. | Ounces | |
| 1100A | ..... | 1/8 | 1/8 | ..... | 1/4 - 7/8 | 3 1/2 | 3/32 | ..... | 1 | \$0.32 |
| 1100 | 721 | 1/8 | 1/8 - 7/8 | ..... | 1/4 - 7/8 | 4 | 1/4 | ..... | 1 1/4 | .34 |
| 1101 | 21 | 1/8 - 7/8 | 1/8 | ..... | 1/4 - 1 1/2 | 4 | 1/4 | ..... | 1 1/4 | .34 |
| 1102 | 722 | 1/8 | 1/8 - 1/4 | 1/4 | 1/4 - 7/8 | 4 1/2 | 3/32 | ..... | 2 | .42 |
| 1103 | 22 | 1/8 - 1/4 | 1/8 - 7/8 | 7/8 | 1/4 - 1 1/2 | 4 1/2 | 3/32 | ..... | 2 | .42 |
| 1104 | 723 | ..... | 7/8 - 1/4 | 1/4 | 3/8 - 7/8 | 4 1/2 | 3/32 | ..... | 2 | .42 |
| 1105 | 723a | 1/4 | 1/4 - 7/8 | 7/8 | 3/8 - 1 1/2 | 4 1/2 | 3/32 | ..... | 2 | .42 |
| 1107 | 23 | 7/8 - 1/4 | 7/8 | 7/8 | 1 1/2 - 1 1/2 | 4 1/2 | 3/32 | ..... | 2 | .42 |
| 1106 | 724 | ..... | 7/8 - 3/8 | 3/8 | 3/8 - 7/8 | 5 | 7/8 | ..... | 3 | .50 |
| 1108 | 24 | 7/8 - 7/8 | ..... | ..... | 1 1/2 - 1 1/2 | 5 | 7/8 | ..... | 3 | .50 |
| 1109 | 725 | 1/4 | 1/4 - 7/8 | 1/4 - 7/8 | 1/2 - 7/8 | 5 | 7/8 | ..... | 3 | .50 |
| 1110 | 725a | ..... | 1/4 - 3/8 | 1/4 - 3/8 | 1/2 - 7/8 | 5 | 7/8 | ..... | 3 | .50 |
| 1111 | 725b | 1/4 | 7/8 - 3/8 | 7/8 - 3/8 | 1/2 - 7/8 | 5 1/2 | 7/8 | ..... | 3 1/2 | .50 |
| 1112 | 25 | 1/4 - 7/8 | 7/8 | 7/8 | 1/2 - 1 1/2 | 5 1/2 | 7/8 | ..... | 3 1/2 | .50 |
| 1113 | 726 | 1/4 | 7/8 - 7/8 | 7/8 - 7/8 | 1/2 - 3/4 | 6 | 1 1/8 | ..... | 5 | .62 |
| 1114 | 26 | 1/4 - 3/8 | 7/8 | 7/8 | 1/2 - 1 1/8 | 6 | 1 1/8 | ..... | 5 | .62 |
| 1116 | 727 | ..... | 3/8 - 7/8 | 3/8 - 7/8 | 1/2 - 3/4 | 6 | 1 1/8 | ..... | 5 | .62 |
| 1118X | 27c | 3/8 | 3/8 | 3/8 | 7/8 - 1 1/8 | 6 1/2 | 3/8 | ..... | 6 | .62 |
| 1118 | 27 | 7/8 - 3/8 | ..... | ..... | 1 1/2 - 1 1/8 | 6 1/2 | 3/8 | ..... | 6 | .62 |
| 1117 | 728 | ..... | 3/8 - 1/2 | 3/8 - 1/2 | 7/8 - 3/4 | 7 | 1 1/8 | ..... | 8 | .74 |
| 1119 | 28 | 7/8 - 7/8 | ..... | ..... | 1 1/2 - 1 1/8 | 7 | 1 1/8 | ..... | 8 | .74 |
| 1119X | ..... | 3/8 | 7/8 | 7/8 | 3/8 - 1 1/8 | 7 | 1 1/8 | ..... | 8 | .74 |
| 1120 | 729 | ..... | 7/8 - 1/2 | 7/8 - 1/2 | 3/8 - 3/4 | 7 | 1 1/8 | ..... | 8 | .74 |
| 1120X | 28s | 7/8 | 7/8 | 7/8 | 3/8 - 1 1/8 | 7 | 1 1/8 | ..... | 8 | .74 |
| 1123X | 29 | 3/8 | 1/2 | 1/2 | 1 1/2 - 3/4 | 7 | 1 1/8 | ..... | 8 | .74 |
| 1123 | 29 | 3/8 - 7/8 | ..... | ..... | 1 1/2 - 3/4 | 7 | 1 1/8 | ..... | 8 | .74 |
| 1121 | 730 | ..... | 7/8 - 7/8 | 7/8 | 3/8 - 1 1/8 | 8 | 1 1/8 | ..... | 10 | .90 |
| 1122 | 730a | 1/2 | 7/8 - 3/8 | 7/8 - 3/8 | 3/8 - 7/8 | 8 | 1 1/8 | ..... | 10 | .90 |
| 1124 | 30 | 3/8 - 1/2 | 7/8 | 7/8 | 1 1/2 - 7/8 | 8 | 1 1/8 | ..... | 10 | .90 |
| 1125 | 731 | ..... | 1/2 - 7/8 | 1/2 | 3/4 - 1 1/8 | 9 | 1 1/8 | ..... | 13 | .90 |
| 1126 | 731a | 1/2 | 1/2 - 3/8 | 1/2 - 3/8 | 3/4 - 7/8 | 9 | 1 1/8 | ..... | 13 | .90 |
| 1128 | 31 | 7/8 - 1/2 | 3/8 | 7/8 | 3/8 - 7/8 | 9 | 1 1/8 | ..... | 13 | .90 |
| 1130 | 731b | 1/2 | 7/8 - 3/8 | 7/8 | 1 1/2 - 7/8 | 9 | 1 1/8 | ..... | 13 | .90 |
| 1129 | 32 | 7/8 - 7/8 | ..... | ..... | 3/8 - 1 1/8 | 10 | 1 1/2 | ..... | 1 | 1.10 |
| 1131 | 732 | ..... | 7/8 - 3/4 | 1 1/8 | 1 1/2 - 1 | 10 | 1 1/2 | ..... | 1 | 1.10 |
| 1131X | 33a | 1/2 | 3/8 | 7/8 - 3/8 | 7/8 - 1 1/8 | 10 | 1 1/2 | ..... | 1 | 1.10 |
| 1132 | 33 | 1/2 - 7/8 | 3/8 | 7/8 | 7/8 - 1 1/8 | 10 | 1 1/2 | ..... | 1 | 1.10 |
| 1132X | 33c | ..... | 3/4 | 3/8 - 1 1/8 | 1 1/2 - 1 | 10 | 1 1/2 | ..... | 1 | 1.10 |
| 1133 | 733 | 1/2 | 3/8 - 3/4 | 7/8 - 1 1/8 | 7/8 - 1 | 10 | 1 1/2 | ..... | 1 | 1.10 |
| 1134 | 34 | 1/2 - 3/8 | 3/8 | 7/8 - 3/4 | 7/8 - 1 1/8 | 11 | 1 1/2 | ..... | 1 | 1.36 |
| 1135 | 734 | 1/2 | 3/8 - 7/8 | 7/8 | 7/8 - 1 1/8 | 11 | 1 1/2 | ..... | 1 | 1.36 |
| 1136X | 34a | 3/8 | ..... | 3/8 - 3/4 | 1 1/2 - 1 1/8 | 11 | 1 1/2 | ..... | 1 | 1.36 |
| 1136 | 35 | 7/8 - 3/8 | ..... | 3/4 | 1 1/2 - 1 1/8 | 11 | 1 1/2 | ..... | 1 | 1.36 |
| 1138 | 735 | ..... | 3/4 - 7/8 | 1 1/8 | 1 - 1 1/8 | 11 | 1 1/2 | ..... | 1 | 1.36 |
| 1137 | 36 | 7/8 - 3/4 | 1 | 7/8 | 1 1/2 - 1 1/4 | 12 | 1 1/2 | ..... | 14 | 1.92 |
| 1139 | 736 | 3/4 | 3/4 - 1 | 1 1/8 - 7/8 | 1 - 1 1/4 | 12 | 1 1/2 | ..... | 14 | 1.92 |
| 1140 | 37 | 3/8 - 3/4 | 1 | 3/8 - 7/8 | 1 1/2 - 1 1/4 | 12 | 1 1/2 | ..... | 14 | 1.92 |
| 1140X | 737 | 3/4 | 7/8 - 1 | 7/8 | 1 1/2 - 1 1/4 | 12 | 1 1/2 | ..... | 14 | 1.92 |
| 1141 | 38 | 3/8 - 7/8 | ..... | 3/4 - 1 | 1 1/2 - 1 1/8 | 14 | 3/4 | ..... | 2 | 2.80 |
| 1145 | 739 | 3/4 | 1 - 1 1/8 | 7/8 | 1 1/4 - 1 3/8 | 14 | 3/4 | ..... | 2 | 2.80 |
| 1146 | 39 | 3/4 - 7/8 | 1 | 7/8 - 1 | 1 1/4 - 1 1/8 | 14 | 3/4 | ..... | 2 | 2.80 |
| 1148 | 40 | 3/4 - 1 | 1 | 3/8 - 1 1/8 | 1 1/4 - 1 5/8 | 16 | 1 1/8 | ..... | 3 | 3.80 |
| 1150 | 41 | 3/8 - 1 | ..... | 1 - 1 1/8 | 1 1/2 - 1 5/8 | 16 | 1 1/8 | ..... | 3 | 3.80 |
| 1151 | 42 | 3/8 - 1 1/8 | ..... | 1 - 1 1/4 | 1 1/2 - 1 1/2 | 18 | 1 1/8 | ..... | 6 | 5.30 |
| 1153 | 43 | 1 - 1 1/8 | ..... | 1 1/8 - 1 1/4 | 1 5/8 - 1 1/2 | 18 | 1 1/8 | ..... | 6 | 5.30 |
| 1154 | 44 | 1 - 1 1/4 | ..... | 1 1/8 - 1 3/8 | 1 5/8 - 2 | 21 | 1 1/8 | ..... | 10 | 7.20 |
| 1155 | 45 | 1 1/8 - 1 1/4 | ..... | 1 1/4 - 1 3/8 | 1 1/2 - 2 | 21 | 1 1/8 | ..... | 2 | 7.20 |
| 1156 | 46 | 1 1/8 - 1 3/8 | ..... | 1 1/4 - 1 1/2 | 1 1/2 - 2 3/8 | 23 | 1 1/8 | ..... | 11 | 10.50 |
| 1157 | 47 | 1 1/4 - 1 3/8 | ..... | 1 3/8 - 1 1/2 | 2 - 2 3/8 | 23 | 1 1/8 | ..... | 13 | 10.50 |
| 1158 | 48 | 1 1/4 - 1 1/2 | ..... | 1 3/8 | 2 - 2 3/8 | 24 | 1 1/8 | ..... | 13 | 14.00 |

ENGINEERS WRENCHES

BILLINGS & SPENCER



15 Degree Angle, Single Head

Drop Forged Steel, Dull Black Finish, Polished Heads, Hardened.

The heads of the wrenches are plainly marked showing the purpose for which they are intended.

| Nos. | Trade Nos. | U.S.S. Bolt Size | Hex. Head Cap Screw Size | Milled Openings | Length, Inches | Thick-ness of Head, Inches | Wt., Oz. | Each |
|-------|------------|------------------|--------------------------|-----------------|----------------|----------------------------|----------|--------|
| 1000A | | | | 1/4 | 3 | 1 1/2 | 1 | \$0.28 |
| 1000 | 00 | 5/8 | 1/2 | 3/8 | 3 | 1 1/2 | 1 | .28 |
| 1000B | | | | 3/8 | 3 1/2 | 1 1/2 | 1 | .28 |
| 1001 | 0 | 3/4 | 5/8 | 1/2 | 4 | 1 1/2 | 1 1/2 | .30 |
| 1002 | 701 | 1 | 3/4 | 1/2 | 4 | 1 1/2 | 1 1/2 | .30 |
| 1003 | 1 | 1 1/4 | 1 | 1/2 | 5 | 1 1/2 | 3 | .36 |
| 1004 | 702 | | 3/4 | 1/2 | 5 | 1 1/2 | 3 | .36 |
| 1005 | 2 | 1 1/2 | | 1/2 | 5 1/2 | 1 1/2 | 4 | .44 |
| 1006 | 703 | | 1 | 1/2 | 5 1/2 | 1 1/2 | 4 | .44 |
| 1007 | 3 | 1 3/4 | | 1/2 | 6 1/2 | 1 1/2 | 6 1/2 | .52 |
| 1008 | 704 | | 1 1/2 | 1/2 | 6 1/2 | 1 1/2 | 6 1/2 | .52 |
| 1009 | 4 | 2 | | 1/2 | 7 1/2 | 1 1/2 | 7 | .64 |
| 1010 | 705 | | 1 3/4 | 1/2 | 7 1/2 | 1 1/2 | 7 | .64 |
| 1011 | 5 | 2 1/2 | | 1/2 | 8 | 1 1/2 | 8 1/2 | .76 |
| 1012 | 6 | 3 | | 1/2 | 8 1/2 | 1 1/2 | 10 1/2 | .92 |
| 1013 | 706 | | 3/4 | 1 | 8 1/2 | 1 1/2 | 10 1/2 | .92 |
| 1014 | 7 | 3 1/2 | | 1 1/4 | 9 1/4 | 1 1/2 | 13 1/2 | 1.14 |
| 1015 | 707 | | 1 | 1 1/4 | 11 | 1 1/2 | | 1.50 |
| 1016 | 8 | 4 | | 1 1/4 | 11 | 1 1/2 | | 1.50 |
| 1017 | 708A | | 1 1/2 | 1 1/4 | 13 | 1 1/2 | | 2.30 |
| 1018 | 9 | 4 1/2 | | 1 1/4 | 13 | 1 1/2 | | 2.30 |

HEAVY CAP SCREW WRENCHES

BILLINGS & SPENCER



15 Degree, Double Head, for Hexagon Head Cap Screws

Drop Forged Steel, Dull Black Finish, Polished Heads, Hardened.

The heads of the wrenches are plainly marked showing the purpose for which they are intended.

| Nos. | Hex. Head Cap Screw Size | Milled Openings | Length, Inches | Thick-ness of Heads, Inches | Weight | | Each |
|------|--------------------------|-----------------|----------------|-----------------------------|--------|-----|--------|
| | | | | | Lbs. | Oz. | |
| 1253 | 1/4 - 3/8 | 1/8 - 1/8 | 5 1/2 | 1/8 | 4 | | \$0.60 |
| 1254 | 5/8 - 3/4 | 1/2 - 1/2 | 5 1/2 | 1/8 | 4 | | .60 |
| 1255 | 1 - 1 1/4 | 1/2 - 5/8 | 6 1/4 | 3/8 | 6 | | .74 |
| 1256 | 3/8 - 1/2 | 1/8 - 5/8 | 6 1/4 | 3/8 | 6 | | .74 |
| 1257 | 3/8 - 1/2 | 1/8 - 3/4 | 7 | 1/8 | 9 | | .90 |
| 1258 | 1/2 - 1 1/2 | 5/8 - 3/4 | 7 | 1/8 | 9 | | .90 |
| 1259 | 1/2 - 1 1/2 | 5/8 - 1 1/8 | 7 3/4 | 1/2 | 12 | | 1.10 |
| 1260 | 1/2 - 1 1/2 | 3/4 - 1 1/8 | 7 3/4 | 1/2 | 12 | | 1.10 |
| 1261 | 1/2 - 1 1/2 | 3/4 - 3/8 | 8 3/4 | 1/8 | 1 | 1 | 1.36 |
| 1263 | 1/2 - 5/8 | 1 1/8 - 3/8 | 8 3/4 | 1/8 | 1 | 1 | 1.36 |
| 1264 | 1/2 - 3/4 | 1 1/8 - 1 | 10 1/4 | 5/8 | 1 | 8 | 1.80 |
| 1265 | 1/2 - 3/4 | 3/8 - 1 | 10 1/4 | 5/8 | 1 | 8 | 1.80 |
| 1266 | 5/8 - 3/4 | 3/8 - 1 1/8 | 11 3/4 | 3/4 | 1 | 15 | 2.50 |
| 1268 | 3/4 - 3/8 | 1 - 1 1/8 | 11 3/4 | 3/4 | 1 | 15 | 2.50 |
| 1269 | 3/4 - 1 | 1 - 1 1/4 | 13 1/4 | 7/8 | 2 | 8 | 3.30 |
| 1270 | 7/8 - 1 | 1 1/8 - 1 1/4 | 13 1/4 | 7/8 | 2 | 8 | 3.30 |

THIN HEAD CHECK NUT WRENCHES

BILLINGS & SPENCER



15 Degree Angle, Double Head

Drop Forged Steel, Dull Black Finish, Polished Heads, Hardened.

| Nos. | Trade Nos. | U. S. Standard Bolt Size | Hex. Head Cap Screw Diam. Sc. | S. A. E. Standard Nut and Cap Screws Size Bolt | Milled Openings | Length, Inches | Thickness of Heads, Inches | Weight Each, Oz. | Each |
|-------|------------|--------------------------|-------------------------------|--|-----------------|----------------|----------------------------|------------------|--------|
| 1325 | | | 3/8 - 1/4 | 1/4 | 3/8 - 1/8 | 4 1/2 | 1/8 | 1 | \$0.50 |
| 1326 | 623D | | 1/4 - 1/8 | 1/4 - 1/8 | 1/8 - 1/2 | 4 1/2 | 1/8 | 1 | .50 |
| 1327 | | | 3/8 - 1/8 | 3/8 - 3/8 | 1/2 - 1/8 | 4 1/2 | 1/8 | 1 | .50 |
| 1328 | 626S | | 3/8 - 1/8 | 3/8 - 1/8 | 1/2 - 3/8 | 5 1/2 | 1/8 | 3 | .64 |
| 1329 | 628D | | 1/2 - 1/2 | 1/2 - 1/2 | 3/4 - 3/4 | 5 1/2 | 1/8 | 3 | .64 |
| 1330 | 630E | | 1/2 - 5/8 | 1/2 - 5/8 | 3/4 - 3/4 | 7 | 1/8 | 4 | .80 |
| 1350 | 623 | 1/8 - 1/4 | 1/8 | 1/8 | 1/2 - 1/2 | 4 1/2 | 1/8 | 1 | .50 |
| 1350X | 623E | 1/8 | 1/8 - 1/8 | 1/8 | 3/8 - 1/2 | 4 1/2 | 1/8 | | .50 |
| 1351 | 624 | 1/8 - 1/8 | | | 1/2 - 1/2 | 4 1/2 | 1/8 | 1 | .50 |
| 1351X | 623D | 1/4 - 1/8 | 1/4 - 1/8 | 1/4 - 1/8 | 1/2 - 1/2 | 4 1/2 | 1/8 | | .50 |
| 1352 | 625 | 1/4 - 1/8 | 1/8 | 1/8 | 1/2 - 1/2 | 4 1/2 | 1/8 | 1 | .50 |
| 1353 | 626 | 1/4 - 3/8 | 1/8 | 1/8 | 1/2 - 1/2 | 5 1/2 | 1/8 | 3 | .64 |
| 1353X | 626X | 3/8 | 3/8 | 3/8 | 1/2 - 1/2 | 5 1/2 | 1/8 | | .64 |
| 1354 | 627 | 1/8 - 3/8 | | | 1/2 - 1/2 | 5 1/2 | 1/8 | 3 | .64 |
| 1355 | 628 | 1/8 - 1/8 | | | 1/2 - 1/2 | 5 1/2 | 1/8 | 3 | .64 |
| 1356 | 629 | 3/8 - 1/8 | | | 1/2 - 1/2 | 7 | 1/8 | 4 | .80 |
| 1356X | 630E | 1/2 - 1/8 | 1/2 - 5/8 | 1/2 - 1/8 | 3/4 - 3/4 | 7 | 1/8 | | .80 |
| 1357 | 630 | 3/8 - 1/2 | 5/8 | 1/8 | 1/2 - 3/4 | 7 | 1/8 | 4 | .80 |
| 1357X | 629D | 1/8 - 1/2 | | | 3/8 - 3/4 | 7 | 1/8 | | .80 |
| 1358 | 631 | 1/8 - 1/2 | 5/8 | 1/8 | 1/2 - 3/4 | 7 | 1/8 | 4 | .80 |
| 1359 | 632 | 1/8 - 1/8 | | | 1/2 - 1/2 | 8 1/2 | 1/4 | 7 | 1.12 |
| 1359X | 632X | 5/8 - 1/2 | 3/8 | 5/8 - 1/2 | 1 - 1 | 8 1/2 | 1/4 | | 1.12 |
| 1360 | 633 | 1/2 - 1/8 | 5/8 | 1/8 | 3/4 - 1 1/4 | 8 1/2 | 1/4 | 7 | 1.12 |
| 1361 | 634 | 1/2 - 5/8 | 5/8 | 1/8 - 3/4 | 3/4 - 1 1/4 | 8 1/2 | 1/4 | 7 | 1.12 |
| 1362 | 635 | 1/2 - 5/8 | | | 1 - 1 1/4 | 10 1/2 | 1/4 | 15 | 1.68 |
| 1362X | 635G | 3/4 - 3/8 | 3/4 - 1 | 3/4 | 1 1/4 - 1 1/4 | 10 1/2 | 1/4 | | 1.68 |
| 1363 | 636 | 1/8 - 3/4 | 1 | 3/4 | 1 1/4 - 1 1/4 | 10 1/2 | 1/4 | 15 | 1.68 |
| 1363X | 635E | 3/4 - 1 | 3/4 - 1 | 1 1/4 - 3/4 | 1 - 1 1/4 | 10 1/2 | 1/4 | | 1.68 |
| 1364 | 637 | 5/8 - 3/4 | 1 | 3/4 - 3/4 | 1 1/4 - 1 1/4 | 10 1/2 | 1/4 | 15 | 1.68 |

LIGHT SERVICE WRENCHES

BILLINGS & SPENCER



22 1/2 Degree Angle, Double Head

Drop Forged Steel, Dull Black Finish, Polished Heads, Hardened. The heads of the wrenches are plainly marked showing the purpose for which they are intended.

| Nos. | Trade Nos. | U. S. Standard Bolt Size | Hex. Head Cap Screw Size | S. A. E. Std. Screw and Nut | Milled Openings | Extreme Length, Inches | Thickness of Heads, Inches | Weights | | Each |
|-------|------------|--------------------------|--------------------------|-----------------------------|-----------------|------------------------|----------------------------|---------|--------|--------|
| | | | | | | | | Lbs. | Ounces | |
| 2000 | 75B | ..... | 5/16-1/4 | 1/4 | 3/8-7/16 | 6 1/4 | 5/16 | ..... | 2 | \$0.54 |
| 2001 | 75A | 1/4 | 5/16-1/4 | 1/4 | 3/8-1/2 | 6 1/4 | 5/16 | ..... | 2 | .54 |
| 2002 | 75 | 5/16-1/4 | 5/16 | 1/4 | 3/8-1/2 | 6 1/4 | 5/16 | ..... | 2 | .54 |
| 2003 | ..... | ..... | 5/16-3/8 | 3/8 | 3/8-7/8 | 7 1/8 | 1/4 | ..... | 4 | .68 |
| 2004 | ..... | 5/16-1/2 | ..... | ..... | 1/2-1 1/8 | 7 1/8 | 1/4 | ..... | 4 | .68 |
| 2005 | 77S | ..... | 1/4-5/16 | 1/4-5/16 | 1/2-1/2 | 7 1/8 | 1/4 | ..... | 4 | .68 |
| 2006 | 77C | ..... | 1/4-3/8 | 1/4-3/8 | 1/2-7/8 | 7 1/8 | 1/4 | ..... | 4 | .68 |
| 2007 | 77B | 1/4 | 1/4-3/8 | 1/4-3/8 | 1/2-7/8 | 7 1/8 | 1/4 | ..... | 4 | .68 |
| 2008 | ..... | 1/4-1/2 | 5/16 | 5/16 | 1/2-1 1/8 | 7 1/8 | 1/4 | ..... | 4 | .68 |
| 2009 | 77 | 3/4 | 5/16-7/8 | 5/16-7/8 | 1/2-5/8 | 7 1/8 | 1/4 | ..... | 4 | .68 |
| 2010 | ..... | 1/4-3/8 | 5/16 | 5/16 | 1/2-1 1/8 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2011 | ..... | 1/4 | 5/16-1/2 | 5/16-1/2 | 1/2-3/4 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2012 | 79S | ..... | 3/8-7/8 | 3/8-7/8 | 1/2-5/8 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2013 | 79A | 3/8 | 3/8 | 3/8 | 1/2-1 1/8 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2014 | 79E | ..... | 3/8-1/2 | 3/8-1/2 | 1/2-3/4 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2015 | 79D | 5/16-3/8 | ..... | ..... | 1/2-1 1/8 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2016 | ..... | 5/16-1/2 | ..... | ..... | 1/2-1 1/8 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2017 | 79 | 3/8 | 5/16 | 5/16 | 1/2-1 1/8 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2018 | 79C | ..... | 5/16-1/2 | 5/16-1/2 | 5/8-3/4 | 8 1/4 | 5/16 | ..... | 7 | .86 |
| 2019 | ..... | ..... | 5/16-7/8 | 5/16 | 5/8-1 1/8 | 9 1/4 | 3/8 | ..... | 12 | 1.10 |
| 2020 | 81E | 1/2 | 5/16-5/8 | 5/16-5/8 | 5/8-7/8 | 9 1/4 | 3/8 | ..... | 12 | 1.10 |
| 2021 | 81C | 3/8 | 1/2 | 1/2 | 1 1/8-3/4 | 9 1/4 | 3/8 | ..... | 12 | 1.10 |
| 2022 | ..... | 3/8-7/8 | ..... | ..... | 1 1/8-5/8 | 9 1/4 | 3/8 | ..... | 12 | 1.10 |
| 2023 | 81 | 3/8 | ..... | ..... | 1 1/8-5/8 | 9 1/4 | 3/8 | ..... | 12 | 1.10 |
| 2024 | ..... | 3/8-1/2 | 5/8 | 5/8 | 1 1/8-7/8 | 9 1/4 | 3/8 | ..... | 12 | 1.10 |
| 2025 | 81B | ..... | 1/2-5/8 | 1/2 | 3/4-1 1/8 | 9 1/4 | 3/8 | ..... | 12 | 1.10 |
| 2026 | 81A | 1/2 | 1/2-5/8 | 1/2-5/8 | 3/4-7/8 | 9 1/4 | 3/8 | ..... | 12 | 1.10 |
| 2027X | ..... | ..... | 1/2-5/8 | 1/2-5/8 | 3/4-1 1/8 | 10 3/8 | 1/2 | 1 | ..... | 1.40 |
| 2027 | ..... | ..... | 1/2-3/4 | 1/2-1 1/8 | 3/4-1 | 10 3/8 | 1/2 | 1 | ..... | 1.40 |

SHORT HEAVY "S" WRENCHES

BILLINGS & SPENCER



22 1/2 Degree Angle, Double Head

Drop Forged Steel, Dull Black Finish, Polished Heads, Hardened. The heads of the wrenches are plainly marked, showing the purpose for which they are intended.

| Nos. | Trade Nos. | U. S. Standard Bolt Size | Hex. Head Cap Screw Size | Milled Openings | Length, Inches | Thickness of Heads, Inches | Weight, Oz. | Each |
|------|------------|--------------------------|--------------------------|-----------------|----------------|----------------------------|-------------|--------|
| | | | | | | | | |
| 1400 | 661D | 1/8 | 1/8-3/16 | 5/16-3/8 | 4 | 5/16 | 1 | \$0.44 |
| 1401 | 661A | 1/8-1/16 | ..... | 5/16-1/2 | 4 | 5/16 | 1 | .44 |
| 1402 | 661E | 1/8 | 1/8-1/4 | 5/16-7/8 | 4 | 5/16 | 1 | .44 |
| 1403 | 661B | 1/8-1/4 | 5/16 | 5/16-1 1/2 | 4 | 1/4 | 1 | .44 |
| 1404 | 661F | ..... | 3/16-1/4 | 3/8-7/8 | 4 | 1/4 | 1 | .44 |
| 1405 | 661G | 1/4 | 5/16-7/8 | 3/8-7/8 | 4 | 1/4 | 1 | .44 |
| 1406 | ..... | ..... | 5/16-3/8 | 3/8-7/8 | 4 | 1/4 | 1 | .44 |
| 1407 | 661C | 5/16-1/4 | 5/16 | 1/2-1 1/2 | 4 | 1/4 | 1 | .44 |
| 1408 | 662A | 5/16-7/8 | ..... | 1/2-1 1/2 | 5 | 5/16 | 3 | .58 |
| 1409 | 662D | 1/4 | 1/4-5/8 | 5/16-1 1/2 | 5 | 5/16 | 3 | .58 |
| 1410 | 662E | ..... | 1/4-3/8 | 5/16-7/8 | 5 | 5/16 | 3 | .58 |
| 1411 | 662F | 1/4 | 5/16-3/8 | 1/2-7/8 | 5 | 5/16 | 3 | .58 |
| 1412 | 662B | 1/4-7/8 | 5/16 | 1/2-1 1/2 | 5 | 5/16 | 3 | .58 |
| 1413 | 662G | 1/4 | 5/16-7/8 | 1/2-5/8 | 5 | 5/16 | 3 | .58 |
| 1414 | 662C | 1/4-3/8 | 5/16 | 1/2-1 1/8 | 5 | 5/16 | 3 | .58 |
| 1415 | ..... | 1/4 | 5/16-1/2 | 1/2-3/4 | 5 | 5/16 | 3 | .58 |
| 1416 | 663D | ..... | 3/8-7/8 | 5/16-5/8 | 6 1/4 | 3/8 | 6 | .78 |
| 1417 | 663E | ..... | 3/8-1/2 | 5/16-3/4 | 6 1/4 | 3/8 | 6 | .78 |
| 1418 | 663A | 5/16-3/8 | ..... | 1/2-1 1/8 | 6 1/4 | 3/8 | 6 | .78 |
| 1419 | 663B | 5/16-7/8 | ..... | 1/2-1 1/8 | 6 1/4 | 3/8 | 6 | .78 |
| 1420 | 663F | ..... | 5/16-1/2 | 3/8-3/4 | 6 1/4 | 3/8 | 6 | .78 |
| 1421 | 663G | ..... | 5/16-7/8 | 5/8-1 1/8 | 6 1/4 | 3/8 | 6 | .78 |
| 1422 | ..... | 1/2 | 5/16-3/8 | 5/8-7/8 | 6 1/4 | 3/8 | 6 | .78 |
| 1423 | 663C | 3/8-7/8 | ..... | 1 1/8-5/8 | 6 1/4 | 3/8 | 6 | .78 |
| 1424 | 664A | 3/8-1/2 | 5/8 | 1 1/8-7/8 | 7 1/2 | 1/2 | 10 | 1.06 |

SET SCREW WRENCHES

BILLINGS & SPENCER



22 1/2 Degree Angle, Double Heads

Drop Forged Steel, Dull Black Finish, Polished Heads, Hardened.

The Heads of the Wrenches are plainly marked showing the purpose for which they are intended.

| No. | Milled Opening for Set Screw Size | Length | Thick-ness of Heads | Weight | | Each |
|------|-----------------------------------|--------|---------------------|--------|------|--------|
| | | | | Lbs. | Ozs. | |
| 1523 | 3/16 - 1/4 | 3 1/2 | 3/16 | ..... | 1 | \$0.40 |
| 1524 | 1/8 - 3/16 | 4 | 1/4 | ..... | 2 | .48 |
| 1525 | 1/4 - 5/16 | 4 | 1/4 | ..... | 2 | .48 |
| 1526 | 5/16 - 3/8 | 5 | 3/8 | ..... | 3 | .58 |
| 1527 | 3/8 - 7/16 | 5 | 3/8 | ..... | 3 | .58 |
| 1528 | 7/16 - 1/2 | 6 | 1/2 | ..... | 5 | .70 |
| 1529 | 1/2 - 5/8 | 6 | 1/2 | ..... | 5 | .70 |
| 1530 | 5/8 - 3/4 | 6 3/4 | 3/4 | ..... | 7 | .90 |
| 1531 | 3/4 - 7/8 | 6 3/4 | 3/4 | ..... | 7 | .90 |
| 1532 | 7/8 - 1 | 7 1/2 | 1 | ..... | 9 | 1.08 |
| 1533 | 1 - 1 1/8 | 7 1/2 | 1 | ..... | 9 | 1.08 |
| 1534 | 1 1/8 - 5/8 | 8 1/2 | 1 1/2 | ..... | 15 | 1.30 |
| 1535 | 5/8 - 3/4 | 8 1/2 | 1 1/2 | ..... | 15 | 1.30 |
| 1536 | 3/4 - 7/8 | 10 | 1 3/4 | 1 | 2 | 1.60 |
| 1537 | 7/8 - 1 | 10 | 1 3/4 | 1 | 2 | 1.60 |

CAR WRENCHES

BILLINGS & SPENCER



22 1/2 Degree Angle, Double Head

Drop Forged Steel, Hardened, Natural Finish.

| No. | Trade No. | U. S. Standard Bolt Size | Milled Opening | Length | Thick-ness of Heads | Wt. Each, Lbs. | Each |
|------|-----------|--------------------------|----------------|--------|---------------------|----------------|--------|
| | | | | | | | |
| 1800 | 367 | 3/8 - 1/2 | 1 1/2 - 2 | 12 | 1 1/2 | 1.50 | \$1.50 |
| 1801 | 370 | 1/2 - 5/8 | 1 1/2 - 1 1/2 | 19 | 3 1/2 | 2.50 | 2.50 |
| 1802 | 371 | 1/2 - 3/4 | 1 1/2 - 1 1/2 | 20 | 3 1/2 | 3.10 | 3.10 |
| 1803 | 373 | 5/8 - 3/4 | 1 1/2 - 1 1/2 | 20 | 3 1/2 | 3.10 | 3.10 |
| 1804 | 374 | 5/8 - 3/4 | 1 1/2 - 1 1/2 | 21 | 4 1/2 | 3.70 | 3.70 |
| 1805 | 376 | 3/4 - 7/8 | 1 1/2 - 1 1/2 | 21 | 4 1/2 | 3.70 | 3.70 |
| 1806 | 377 | 3/4 - 1 | 1 1/2 - 1 1/2 | 22 | 6 1/2 | 4.50 | 4.50 |
| 1807 | 379 | 3/4 - 1 | 1 1/2 - 1 1/2 | 22 | 6 1/2 | 4.50 | 4.50 |
| 1808 | 380 | 3/4 - 1 1/8 | 1 1/2 - 1 1/2 | 23 | 7 1/2 | 5.30 | 5.30 |
| 1809 | 382 | 1 - 1 1/8 | 1 1/2 - 1 1/2 | 23 | 7 1/2 | 5.30 | 5.30 |
| 1810 | 383 | 1 - 1 1/8 | 1 1/2 - 2 | 24 | 8 1/2 | 6.30 | 6.30 |
| 1811 | 385 | 1 1/8 - 1 1/2 | 1 1/2 - 2 | 24 | 8 1/2 | 6.30 | 6.30 |
| 1812 | 387 | 1 1/8 - 1 1/2 | 1 1/2 - 2 | 25 | 9 1/2 | 9.00 | 9.00 |
| 1813 | 389 | 1 1/8 - 1 1/2 | 2 - 2 1/2 | 25 | 9 1/2 | 9.00 | 9.00 |

TOOL POST WRENCHES

BILLINGS & SPENCER



Double Head, for Set Screws

Drop Forged Steel, Dull Black Finish, Polished Heads, Hardened.

| No. | Open End | Closed End | Length | Thick-ness of Heads | Weight Each Ozs. | Each |
|------|----------|------------|--------|---------------------|------------------|--------|
| | | | | | | |
| 1875 | 3/16 | 3/16 | 5 1/2 | 1/2 | 5 | \$1.12 |
| 1876 | 1/2 | 1/2 | 6 | 1/2 | 7 | 1.24 |
| 1877 | 1/2 | 1/2 | 6 | 1/2 | 7 | 1.24 |
| 1878 | 1/2 | 1/2 | 6 | 1/2 | 7 | 1.24 |
| 1879 | 5/8 | 5/8 | 6 3/4 | 5/8 | 11 | 1.44 |
| 1880 | 1 1/8 | 1 1/8 | 6 3/4 | 5/8 | 11 | 1.44 |
| 1881 | 1 1/8 | 1 1/8 | 6 3/4 | 5/8 | 11 | 1.44 |
| 1882 | 3/4 | 3/4 | 7 1/2 | 1 1/8 | 16 | 1.64 |

CONSTRUCTION WRENCHES

BILLINGS & SPENCER



15 Degree Angle

Drop Forged Steel, Handle Used for Lining Up Bolt Holes.

| No. | U.S. Bolt Size | Milled Opening | Lgth. | Thick-ness of Head | Weight | | Each | |
|------|----------------|----------------|--------|--------------------|--------|-------|--------|--------|
| | | | | | Lbs. | Ozs. | Unfin. | Hard |
| 1675 | 3/8 | 1 1/2 | 9 1/2 | 1/2 | ..... | 8 | \$0.70 | \$0.90 |
| 1676 | 1/2 | 2 1/2 | 9 1/2 | 1/2 | ..... | 8 | .70 | .90 |
| 1677 | 1/2 | 3 1/2 | 11 3/4 | 1/2 | 1 | ..... | .90 | 1.16 |
| 1678 | 3/4 | 3 1/2 | 11 3/4 | 1/2 | 1 | ..... | .90 | 1.16 |
| 1679 | 5/8 | 1 1/2 | 13 1/2 | 3/4 | 1 | 8 | 1.24 | 1.60 |
| 1680 | 3/4 | 1 1/2 | 15 1/2 | 5/8 | 2 | 5 | 1.72 | 2.20 |
| 1681 | 7/8 | 1 1/2 | 17 1/2 | 1 1/2 | 2 | 13 | 2.36 | 3.00 |
| 1682 | 1 | 1 1/2 | 19 | 3/4 | 4 | 3 | 3.20 | 4.20 |
| 1683 | 1 1/8 | 1 1/2 | 21 | 7/8 | 6 | 14 | 4.40 | 6.00 |
| 1684 | 1 1/4 | 2 | 21 | 7/8 | 7 | ..... | 4.40 | 6.00 |

STRUCTURAL WRENCHES

BILLINGS & SPENCER



Straight Opening and Off-Set Head

Drop Forged Steel, Designed for Structural Iron Work-ers. The Handle is used for bringing bolt holes into align-ment.

| No. | U.S. Bolt Size | Open-ings | Lgth. | Thick-ness of Head | Hndl. Offset | Weight | | Each | |
|------|----------------|-----------|--------|--------------------|--------------|--------|-------|--------|--------|
| | | | | | | Lbs. | Ozs. | Unfin. | Hard |
| 1700 | 1/4 | 1 1/2 | 8 | 3/8 | 1 1/2 | ..... | 5 | \$0.66 | \$0.80 |
| 1701 | 1/2 | 1 1/2 | 8 | 3/8 | 1 1/2 | ..... | 5 | .66 | .80 |
| 1702 | 3/8 | 1 1/2 | 9 1/2 | 3/8 | 1 1/2 | ..... | 7 | .80 | 1.04 |
| 1703 | 1/2 | 1 1/2 | 9 1/2 | 3/8 | 1 1/2 | ..... | 7 | .80 | 1.04 |
| 1704 | 1/2 | 1 1/2 | 11 3/4 | 1/2 | 1 | ..... | 12 | 1.04 | 1.40 |
| 1705 | 3/4 | 1 1/2 | 11 3/4 | 1/2 | 1 | ..... | 12 | 1.04 | 1.40 |
| 1706 | 5/8 | 1 1/2 | 13 1/2 | 5/8 | 1 1/2 | 1 | 9 | 1.48 | 1.96 |
| 1707 | 3/4 | 1 1/2 | 15 1/2 | 1 1/2 | 1 1/2 | 2 | 10 | 2.04 | 2.68 |
| 1708 | 7/8 | 1 1/2 | 17 | 3/4 | 1 1/2 | 3 | 11 | 2.80 | 3.60 |
| 1709 | 1 | 1 1/2 | 19 | 1 1/2 | 1 1/2 | 3 | 15 | 3.80 | 5.00 |
| 1710 | 1 1/8 | 1 1/2 | 19 | 1 1/2 | 1 1/2 | 4 | 1 | 3.80 | 5.00 |
| 1711 | 1 1/4 | 2 1/2 | 24 | 1 | 1 1/2 | ..... | ..... | 7.00 | 8.50 |

DROP FORGED WRENCH SETS

BILLINGS & SPENCER

The Wrenches in these Sets are drop forged from specially selected open hearth steel to our specifications. The steel is analyzed in modern metallurgical laboratory before being used. In addition these tools are heat treated after machining to toughen and harden the steel. They are smoothly polished and finished in attractive "Duro" black rust-proof finish with heads brightened and lacquered.

The cases illustrated are made of heavy tan colored canvas, and contain a pocket for each wrench. The heads of the wrenches are plainly marked showing the purpose for which they are intended.

LIGHT SERVICE

For Manufacturers Standard Nuts and Bolts.

These Sets are made up of Standard Light Service "S" Wrenches carefully selected for the work the Set is designed for.

Per Set

No. 1 Set—Consists of 5 Light Service Wrenches, One Each Nos. 2002, 2009, 2017, 2023 and 2032 as Described Below, Weight Per Set 4 Lbs. \$4.58

No. 1R Set—Same as No. 1 in Canvas Roll 5.13

Contents of No. 1 Set.

| Nos. | Trade Nos. | For Mfg. Std. Nuts Size Bolt | Milled Openings | Lgth., Inches | Thick-ness of Heads, Inches | Each |
|------|------------|-------------------------------|-------------------------------|------------------|-----------------------------|--------|
| 2002 | 75 | $\frac{3}{8}$ - $\frac{1}{4}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | 6 $\frac{1}{4}$ | $\frac{5}{16}$ | \$0.54 |
| 2009 | 77 | $\frac{1}{4}$ - $\frac{3}{8}$ | $\frac{1}{2}$ - $\frac{5}{8}$ | 7 $\frac{1}{8}$ | $\frac{1}{4}$ | .68 |
| 2017 | 79 | $\frac{3}{8}$ - $\frac{3}{8}$ | $\frac{5}{8}$ - $\frac{1}{2}$ | 8 $\frac{1}{4}$ | $\frac{5}{16}$ | .86 |
| 2023 | 81 | $\frac{3}{8}$ - $\frac{7}{8}$ | $\frac{1}{2}$ - $\frac{3}{4}$ | 9 $\frac{1}{4}$ | $\frac{3}{8}$ | 1.10 |
| 2032 | 83 | $\frac{7}{8}$ - $\frac{1}{2}$ | $\frac{3}{4}$ - $\frac{1}{2}$ | 10 $\frac{3}{8}$ | $\frac{1}{2}$ | 1.40 |

For S. A. E. Cap Screws and Nuts. Per Set

No. 2 Set—Consists of 5 Light Service Wrenches, One Each Nos. 2001, 2013, 2026, 2038 and 2044 as Described Below, Weight Each 5 $\frac{1}{2}$ Lbs. \$6.50

No. 2R Set—Same as No. 2 in Canvas Roll 7.05

Contents of No. 2 Set.

| Nos. | Trade Nos. | Size Screw S. A. E. Head and Nut | Milled Openings | Lgth., Inches | Thick-ness of Heads, Inches | Each |
|------|------------|----------------------------------|-----------------------------------|------------------|-----------------------------|--------|
| 2001 | 75a | $\frac{1}{2}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | 6 $\frac{1}{4}$ | $\frac{5}{16}$ | \$0.54 |
| 2013 | 79a | $\frac{3}{8}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | 8 $\frac{1}{4}$ | $\frac{5}{16}$ | .86 |
| 2026 | 81a | $\frac{1}{2}$ - $\frac{3}{8}$ | $\frac{3}{4}$ - $\frac{7}{8}$ | 9 $\frac{1}{4}$ | $\frac{3}{8}$ | 1.10 |
| 2038 | 83a | $\frac{3}{8}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - 1 | 10 $\frac{3}{8}$ | $\frac{1}{2}$ | 2.00 |
| 2044 | 85b | $\frac{3}{8}$ | 1 $\frac{1}{8}$ - 1 $\frac{1}{4}$ | 12 | $\frac{1}{2}$ | 2.00 |

DOUBLE HEAD ENGINEERS

15 Degree Angle.

For Hexagon Head Cap Screws and U. S. Standard Nuts.

Per Set

No. 5 Set—Consists of 7 Double Head Engineers Wrenches, One Each Nos. 1109, 1112, 1118X, 1120X, 1126, 1134 and 1139 as Described Below, Weight Per Set 6 $\frac{1}{2}$ Lbs. \$6.54

No. 5R Set—Same as No. 5 in Canvas Roll 7.29

Contents of No. 5 Set.

| Nos. | Trade Nos. | For Hex. Head Cap Screws & U. S. Std. Nuts | Milled Openings | Lgth., Inches | Thick-ness of Heads, Inches | Each |
|-------|------------|--|-------------------------------|-----------------|-----------------------------|--------|
| 1109 | 725 | $\frac{1}{4}$ | $\frac{1}{8}$ - $\frac{1}{2}$ | 5 | $\frac{5}{16}$ | \$0.50 |
| 1112 | 25 | $\frac{1}{8}$ | $\frac{1}{2}$ - $\frac{1}{2}$ | 5 $\frac{1}{2}$ | $\frac{5}{16}$ | .50 |
| 1118X | 27c | $\frac{3}{8}$ | $\frac{1}{2}$ - $\frac{1}{2}$ | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | .62 |
| 1120X | 28s | $\frac{7}{8}$ | $\frac{5}{8}$ - $\frac{3}{4}$ | 7 | $\frac{3}{8}$ | .74 |
| 1126 | 731a | $\frac{1}{2}$ | $\frac{3}{4}$ - $\frac{7}{8}$ | 9 | $\frac{1}{2}$ | .90 |
| 1134 | 34 | $\frac{5}{8}$ | $\frac{7}{8}$ - 1 | 11 | $\frac{3}{4}$ | 1.36 |
| 1139 | 736 | $\frac{3}{4}$ | 1 - 1 $\frac{1}{4}$ | 12 | $\frac{3}{4}$ | 1.92 |

DOUBLE HEAD ENGINEERS

S. A. E. Standard, 15 Degree Angle. Handy for Automobile Mechanics.

Per Set

No. 8 Set—Consists of 5 Double Head Engineers Wrenches, 1 Each Nos. 1105, 1118X, 1126, 1132X and 1140X as Described Below, Weight Per Set 4 Lbs. \$4.96

No. 8R Set—Same as No. 8 in Canvas Roll 5.51

Contents of No. 8 Set.

| Nos. | Trade Nos. | Size Screw S. A. E. Head and Nut | Milled Openings | Lgth., Inches | Thick-ness of Heads, Inches | Each |
|-------|------------|----------------------------------|-----------------------------------|-----------------|-----------------------------|--------|
| 1105 | 723a | $\frac{1}{2}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | 4 $\frac{1}{2}$ | $\frac{5}{16}$ | \$0.42 |
| 1118X | 27c | $\frac{3}{8}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | .62 |
| 1126 | 731a | $\frac{1}{2}$ - $\frac{3}{8}$ | $\frac{3}{4}$ - $\frac{7}{8}$ | 9 | $\frac{1}{2}$ | .90 |
| 1132X | 33c | $\frac{5}{8}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - 1 | 10 | $\frac{3}{8}$ | 1.10 |
| 1140X | 737 | $\frac{3}{8}$ | 1 $\frac{1}{8}$ - 1 $\frac{1}{4}$ | 12 | $\frac{1}{2}$ | 1.92 |

THIN CHECK NUT

For S. A. E. Standard Nuts and Cap Screws.

Extra Thin, 15 Degree Angle. Double Heads.

Per Set

No. 14 Set—Consists of 5 Check Nut Wrenches, One Each Nos. 1350X, 1353X, 1356X, 1359X and 1362X as Described Below, Weight Per Set 2 Lbs. \$4.74

No. 14R Set—Same as No. 14 with Canvas Roll 5.29

Contents of No. 14 Set.

| Nos. | Trade Nos. | Size Screw S. A. E. Head and Nut | Milled Openings | Lgth., Inches | Thick-ness of Heads, Inches | Each |
|-------|------------|----------------------------------|-----------------------------------|------------------|-----------------------------|--------|
| 1350X | 623e | $\frac{1}{2}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | 4 $\frac{1}{2}$ | $\frac{5}{16}$ | \$0.50 |
| 1353X | 626x | $\frac{3}{8}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | 5 $\frac{1}{2}$ | $\frac{1}{2}$ | .64 |
| 1356X | 630e | $\frac{1}{2}$ - $\frac{3}{8}$ | $\frac{3}{4}$ - $\frac{7}{8}$ | 7 | $\frac{1}{2}$ | .80 |
| 1359X | 632x | $\frac{5}{8}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - 1 | 8 $\frac{1}{2}$ | $\frac{3}{4}$ | 1.12 |
| 1362X | 635g | $\frac{3}{4}$ - $\frac{7}{8}$ | 1 $\frac{1}{8}$ - 1 $\frac{1}{4}$ | 10 $\frac{1}{2}$ | $\frac{3}{4}$ | 1.68 |

DOUBLE HEAD ENGINEERS 15 Degree Angle.

For Hexagon Head Cap Screws and Nuts.

Per Set

No. 15 Set—Consists of 8 Wrenches, One Each as Described Below, Wt. Per Set 6 Lbs. \$7.28

No. 15R Set—Same as No. 15 in Canvas Roll 8.28

Contents of No. 15 Set.

| Nos. | Trade Nos. | Size of Screw | Milled Openings | Lgth., Inches | Thick-ness of Heads, Inches | Each |
|----------|------------|-------------------------------|-----------------------------------|-----------------|-----------------------------|--------|
| 1109 Cap | 725 | $\frac{1}{4}$ - $\frac{1}{8}$ | $\frac{1}{8}$ - $\frac{1}{2}$ | 5 | $\frac{5}{16}$ | \$0.50 |
| 1116 Cap | 727 | $\frac{3}{8}$ - $\frac{1}{8}$ | $\frac{1}{2}$ - $\frac{3}{8}$ | 6 | $\frac{1}{2}$ | .62 |
| 1125 Cap | 731 | $\frac{1}{2}$ - $\frac{3}{8}$ | $\frac{3}{4}$ - $\frac{1}{2}$ | 9 | $\frac{1}{2}$ | .90 |
| 1133 Cap | 733 | $\frac{5}{8}$ - $\frac{3}{4}$ | $\frac{7}{8}$ - 1 | 10 | $\frac{3}{4}$ | 1.10 |
| 1112 Nut | 25 | $\frac{1}{8}$ - $\frac{1}{8}$ | $\frac{1}{2}$ - $\frac{1}{2}$ | 5 $\frac{1}{2}$ | $\frac{5}{16}$ | .50 |
| 1123 Nut | 29 | $\frac{3}{8}$ - $\frac{1}{8}$ | $\frac{1}{2}$ - $\frac{1}{2}$ | 7 | $\frac{3}{8}$ | .74 |
| 1132 Nut | 33 | $\frac{1}{2}$ - $\frac{1}{8}$ | $\frac{3}{4}$ - $\frac{3}{4}$ | 10 | $\frac{1}{2}$ | 1.10 |
| 1140 Nut | 37 | $\frac{3}{8}$ - $\frac{3}{4}$ | 1 $\frac{1}{8}$ - 1 $\frac{1}{4}$ | 12 | $\frac{1}{2}$ | 1.92 |

MOLYBDENUM ENGINEERS WRENCHES



Billings Life-Time Wrenches Are Made of Chrome-Mo-lyb-den-um Steel—The Super Alloy—(Billings Formula)

These long, thin, Powerful wrenches with "Spear" shaped heads may be used in close or cramped quarters where an ordinary carbon wrench would be ineffectual.

The handles of the wrenches are rounded and smoothly finished, affording a comfortable grip for the user, a point which will be appreciated by the mechanic who has to use a wrench of this kind for long periods.

The wrenches are finished in nickel over copper plating with heads buffed, a beautiful and permanent rust-proof finish.

They are hardened and tempered by our exclusive process, under the most scientific heat control devices, insuring that these Powerful Wrenches Will Last a Life-time.

Nickel Plated, 15 Degree Angle, Double Head

| Nos. | Equivalent E. & S. Carbon Wrench | Milled Openings | U. S. S. Bolt Size | Hex. Head Cap Screw Size | S. A. E. Nut and Bolt Size | Extreme Length, Inches | Thick- ness of Head, Inches | Weight Each | | Nickel, Each |
|--------|---|-----------------------------------|-------------------------------|--------------------------------|----------------------------------|------------------------------|--------------------------------------|-------------|------------------|-----------------|
| | | | | | | | | Lbs. | Oz. | |
| M1721 | 1100 | $\frac{5}{16}$ - $\frac{3}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | ..... | 4 $\frac{1}{4}$ | $\frac{11}{16}$ | ..... | 1 $\frac{1}{2}$ | \$0.80 |
| M1021 | 1101 | $\frac{5}{16}$ - $\frac{11}{16}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | $\frac{1}{8}$ | ..... | 4 $\frac{1}{4}$ | $\frac{11}{16}$ | ..... | 1 $\frac{1}{2}$ | .80 |
| M1722 | 1102 | $\frac{5}{16}$ - $\frac{1}{2}$ | $\frac{1}{8}$ | $\frac{1}{8}$ - $\frac{1}{4}$ | $\frac{1}{4}$ | 4 $\frac{1}{4}$ | $\frac{11}{16}$ | ..... | 1 $\frac{1}{2}$ | .80 |
| M1723 | 1104 | $\frac{3}{8}$ - $\frac{1}{2}$ | ..... | $\frac{1}{8}$ - $\frac{1}{4}$ | $\frac{1}{4}$ | 4 $\frac{1}{4}$ | $\frac{11}{16}$ | ..... | 1 $\frac{1}{2}$ | .80 |
| M1022 | 1103 | $\frac{5}{16}$ - $\frac{1}{2}$ | $\frac{1}{8}$ - $\frac{1}{4}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | $\frac{1}{8}$ | 4 $\frac{3}{4}$ | $\frac{11}{16}$ | ..... | 2 $\frac{1}{2}$ | .96 |
| M1023 | 1107 | $\frac{11}{16}$ - $\frac{1}{2}$ | $\frac{1}{8}$ - $\frac{1}{4}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | $\frac{1}{8}$ | 4 $\frac{3}{4}$ | $\frac{11}{16}$ | ..... | 2 $\frac{1}{2}$ | .96 |
| M1723A | 1105 | $\frac{3}{8}$ - $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | $\frac{1}{8}$ | 4 $\frac{3}{4}$ | $\frac{11}{16}$ | ..... | 2 $\frac{1}{2}$ | .96 |
| M1024 | 1108 | $\frac{11}{16}$ - $\frac{11}{16}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | ..... | ..... | 5 $\frac{1}{2}$ | $\frac{1}{4}$ | ..... | 3 $\frac{1}{2}$ | 1.16 |
| M1725 | 1109 | $\frac{5}{16}$ - $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{1}{4}$ - $\frac{1}{8}$ | $\frac{1}{4}$ - $\frac{1}{8}$ | 5 $\frac{1}{2}$ | $\frac{1}{4}$ | ..... | 3 $\frac{1}{2}$ | 1.16 |
| M1725A | 1110 | $\frac{5}{16}$ - $\frac{1}{2}$ | ..... | $\frac{1}{4}$ - $\frac{3}{8}$ | $\frac{1}{4}$ - $\frac{3}{8}$ | 5 $\frac{1}{2}$ | $\frac{1}{4}$ | ..... | 3 $\frac{1}{2}$ | 1.16 |
| M1725B | 1111 | $\frac{1}{2}$ - $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{1}{8}$ - $\frac{3}{8}$ | $\frac{1}{8}$ - $\frac{3}{8}$ | 5 $\frac{1}{2}$ | $\frac{1}{4}$ | ..... | 3 $\frac{1}{2}$ | 1.16 |
| M1025 | 1112 | $\frac{1}{2}$ - $\frac{11}{16}$ | $\frac{1}{4}$ - $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | 5 $\frac{1}{2}$ | $\frac{1}{4}$ | ..... | 3 $\frac{1}{2}$ | 1.16 |
| M1726 | 1113 | $\frac{1}{2}$ - $\frac{5}{8}$ | $\frac{1}{4}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | ..... | 5 | 1.40 |
| M1026 | 1114 | $\frac{1}{2}$ - $\frac{11}{16}$ | $\frac{1}{4}$ - $\frac{3}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | ..... | 5 | 1.40 |
| M1727 | 1116 | $\frac{1}{2}$ - $\frac{5}{8}$ | ..... | $\frac{3}{8}$ - $\frac{1}{8}$ | $\frac{3}{8}$ - $\frac{1}{8}$ | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | ..... | 5 | 1.40 |
| M1027 | 1118 | $\frac{11}{16}$ - $\frac{11}{16}$ | $\frac{1}{8}$ - $\frac{3}{8}$ | ..... | ..... | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | ..... | 5 | 1.40 |
| M1027C | 1118X | $\frac{5}{16}$ - $\frac{11}{16}$ | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{3}{8}$ | 6 $\frac{1}{2}$ | $\frac{1}{2}$ | ..... | 5 | 1.40 |
| M1728 | 1117 | $\frac{1}{2}$ - $\frac{3}{4}$ | $\frac{1}{8}$ - $\frac{3}{4}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | 7 $\frac{3}{4}$ | $\frac{3}{8}$ | ..... | 9 | 1.74 |
| M1028 | 1119 | $\frac{11}{16}$ - $\frac{11}{16}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | ..... | ..... | 7 $\frac{3}{4}$ | $\frac{3}{8}$ | ..... | 9 | 1.74 |
| M1028S | 1120X | $\frac{5}{8}$ - $\frac{11}{16}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | 7 $\frac{3}{4}$ | $\frac{3}{8}$ | ..... | 9 | 1.74 |
| M1729 | 1120 | $\frac{5}{8}$ - $\frac{3}{4}$ | ..... | $\frac{1}{8}$ - $\frac{1}{2}$ | $\frac{1}{8}$ - $\frac{1}{2}$ | 7 $\frac{3}{4}$ | $\frac{3}{8}$ | ..... | 9 | 1.74 |
| M1029 | 1123 | $\frac{11}{16}$ - $\frac{11}{16}$ | $\frac{3}{8}$ - $\frac{1}{8}$ | ..... | ..... | 7 $\frac{3}{4}$ | $\frac{3}{8}$ | ..... | 9 | 1.74 |
| M1030 | 1124 | $\frac{11}{16}$ - $\frac{3}{4}$ | $\frac{3}{8}$ - $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{5}{8}$ | 7 $\frac{3}{4}$ | $\frac{3}{8}$ | ..... | 9 | 1.74 |
| M1731 | 1125 | $\frac{3}{4}$ - $\frac{11}{16}$ | ..... | $\frac{1}{2}$ - $\frac{1}{8}$ | $\frac{1}{2}$ | 9 $\frac{1}{4}$ | $\frac{1}{2}$ | ..... | 12 $\frac{1}{2}$ | 2.14 |
| M1731A | 1126 | $\frac{3}{4}$ - $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ - $\frac{5}{8}$ | $\frac{1}{2}$ - $\frac{1}{8}$ | 9 $\frac{1}{4}$ | $\frac{1}{2}$ | ..... | 12 $\frac{1}{2}$ | 2.14 |
| M1031 | 1128 | $\frac{11}{16}$ - $\frac{3}{4}$ | $\frac{1}{8}$ - $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{5}{8}$ | 9 $\frac{1}{4}$ | $\frac{1}{2}$ | ..... | 12 $\frac{1}{2}$ | 2.14 |
| M1731B | 1130 | $\frac{11}{16}$ - $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ - $\frac{5}{8}$ | $\frac{1}{2}$ | 9 $\frac{1}{4}$ | $\frac{1}{2}$ | ..... | 12 $\frac{1}{2}$ | 2.14 |
| M1032 | 1129 | $\frac{11}{16}$ - $\frac{11}{16}$ | $\frac{1}{8}$ - $\frac{1}{8}$ | ..... | ..... | 9 $\frac{1}{4}$ | $\frac{1}{2}$ | ..... | 12 $\frac{1}{2}$ | 2.14 |
| M1033A | 1131X | $\frac{3}{4}$ - $\frac{11}{16}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{5}{8}$ - $\frac{5}{8}$ | 9 $\frac{1}{4}$ | $\frac{1}{2}$ | ..... | 12 $\frac{1}{2}$ | 2.14 |
| M1033 | 1132 | $\frac{3}{4}$ - $\frac{11}{16}$ | $\frac{1}{2}$ - $\frac{1}{8}$ | $\frac{5}{8}$ | $\frac{5}{8}$ | 9 $\frac{1}{4}$ | $\frac{1}{2}$ | ..... | 12 $\frac{1}{2}$ | 2.14 |
| M1733 | 1133 | $\frac{3}{4}$ - 1 | $\frac{1}{2}$ | $\frac{5}{8}$ - $\frac{3}{4}$ | $\frac{5}{8}$ - $\frac{11}{16}$ | 10 $\frac{3}{4}$ | $\frac{1}{2}$ | 1 | 3 | 2.64 |
| M1033C | 1132X | $\frac{11}{16}$ - 1 | ..... | $\frac{5}{8}$ | $\frac{5}{8}$ - $\frac{11}{16}$ | 10 $\frac{3}{4}$ | $\frac{1}{2}$ | 1 | 3 | 2.64 |
| M1034 | 1134 | $\frac{3}{4}$ - 1 $\frac{1}{8}$ | $\frac{1}{2}$ - $\frac{5}{8}$ | $\frac{5}{8}$ | $\frac{5}{8}$ - $\frac{3}{4}$ | 10 $\frac{3}{4}$ | $\frac{1}{2}$ | 1 | 3 | 2.64 |
| M1734 | 1135 | $\frac{3}{4}$ - 1 $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ - $\frac{3}{4}$ | $\frac{5}{8}$ | 10 $\frac{3}{4}$ | $\frac{1}{2}$ | 1 | 3 | 2.64 |
| M1034A | 1136X | $\frac{11}{16}$ - 1 $\frac{1}{8}$ | $\frac{5}{8}$ | ..... | $\frac{5}{8}$ - $\frac{3}{4}$ | 10 $\frac{3}{4}$ | $\frac{1}{2}$ | 1 | 3 | 2.64 |
| M1035 | 1136 | $\frac{11}{16}$ - 1 $\frac{1}{8}$ | $\frac{1}{8}$ - $\frac{5}{8}$ | ..... | $\frac{3}{4}$ | 10 $\frac{3}{4}$ | $\frac{1}{2}$ | 1 | 3 | 2.64 |
| M1735 | 1138 | 1 - 1 $\frac{1}{8}$ | ..... | $\frac{3}{4}$ - $\frac{3}{4}$ | $\frac{11}{16}$ | 12 $\frac{1}{4}$ | $\frac{11}{16}$ | 1 | 8 | 3.18 |
| M1036 | 1137 | $\frac{11}{16}$ - 1 $\frac{1}{8}$ | $\frac{1}{8}$ - $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 12 $\frac{1}{4}$ | $\frac{11}{16}$ | 1 | 8 | 3.18 |
| M1736 | 1139 | 1 - 1 $\frac{1}{8}$ | $\frac{3}{4}$ | $\frac{3}{4}$ - 1 | $\frac{11}{16}$ - $\frac{3}{4}$ | 12 $\frac{1}{4}$ | $\frac{11}{16}$ | 1 | 8 | 3.18 |
| M1037 | 1140 | 1 $\frac{1}{8}$ - 1 $\frac{1}{4}$ | $\frac{5}{8}$ - $\frac{3}{4}$ | 1 | $\frac{3}{4}$ - $\frac{3}{4}$ | 12 $\frac{1}{4}$ | $\frac{11}{16}$ | 1 | 8 | 3.18 |
| M1737 | 1140X | 1 $\frac{1}{8}$ - 1 $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ - 1 | $\frac{3}{4}$ | 12 $\frac{1}{4}$ | $\frac{11}{16}$ | 1 | 8 | 3.18 |

Mo-lyb-den-um has but recently come into prominence in the field of commercial alloy steels. For some time it has been used as a fairly satisfactory substitute for Tungsten in High Speed Steels.

The discovery of extensive deposits of this metal in Colorado,—at about the time the World War created a shortage of all other alloying elements,—led to further research on the effect of Mo-lyb-den-um in steel. It was determined that Mo-lyb-den-um produced much the same effect as the most prominent steel alloying elements, Nickel and Chromium. It was further determined that Steels containing Chromium and Mo-lyb-den-um possessed physical properties far superior to any previously known alloy steel.

MOLYBDENUM GENERAL SERVICE WRENCHES



Nickel Plated, 22 1/2° Angle, Thin Double Heads

The use of Chrome-Mo-lyb-den-um steel (Billings' formula) marks a distinct advance in wrench manufacture and is the result of painstaking research and experiment not only by the engineers of the Billings & Spencer Company but by the leading metallurgists in the Steel Industry as well. These tests and experiments covered a period of years and resulted in the development of a super alloy steel (Billings' Chrome-Mo-lyb-den-um formula) which makes possible a stronger and tougher wrench than any wrench now on the market.

The Billings' General Service "S" Wrench is made in the same dies as the Light Service Carbon Wrench, but thru the use of Chrome-Mo-lyb-den-um steel (Billings' formula) these wrenches are by far the strongest, toughest, and most practical "S" wrenches ever offered the American mechanic.

The Billings' Mo-lyb-den-um General Service "S" Wrench is designed with long, thin, powerful jaws which will permit the use of these wrenches in close quarters where an ordinary carbon wrench could not be used.

| No. | Equiv. B. & S. Carbon Wrench | Milled Open- ings | U.S.S. Bolt Size | Hex. Hd. Cap. Sc. Size | S.A.E. Nut and Bolt Size | Extreme Length | Thick- ness of Head | Weight | | Nickel Plated Each |
|--------|---------------------------------------|-------------------------|------------------------|------------------------------|--------------------------------|-------------------|---------------------------|--------|------|--------------------------|
| | | | | | | | | Lbs. | Ozs. | |
| M1075B | 2000 | 3/8-7/16 | ... | 3/8-1/4 | ... | 6 1/4 | 3/16 | ... | 2 | \$1.30 |
| M1075A | 2001 | 3/8-1/2 | ... | 3/8-3/8 | ... | 6 1/4 | 3/16 | ... | 2 | 1.30 |
| M1075 | 2002 | 1/2-1/2 | ... | 1/2-1/4 | ... | 6 1/4 | 3/16 | ... | 2 | 1.30 |
| M1077S | 2005 | 1/2-1/2 | ... | 1/2-3/8 | ... | 7 1/8 | 1/4 | ... | 4 | 1.65 |
| M1077B | 2007 | 1/2-3/8 | ... | 1/2-3/8 | ... | 7 1/8 | 1/4 | ... | 4 | 1.65 |
| M1077 | 2009 | 1/2-5/8 | ... | 1/2-3/8 | ... | 7 1/8 | 1/4 | ... | 4 | 1.65 |
| M1079B | 2012X | 3/4-1/2 | ... | 3/4-1/2 | ... | 8 1/4 | 3/16 | ... | 7 | 2.05 |
| M1079S | 2012 | 3/4-5/8 | ... | 3/4-3/8 | ... | 8 1/4 | 3/16 | ... | 7 | 2.05 |
| M1079A | 2013 | 3/4-1 1/8 | ... | 3/4-... | ... | 8 1/4 | 3/16 | ... | 7 | 2.05 |
| M1079 | 2017 | 3/4-1 1/8 | ... | 3/4-1/2 | ... | 8 1/4 | 3/16 | ... | 7 | 2.05 |
| M1079C | 2018 | 3/4-3/4 | ... | 3/4-1/2 | ... | 8 1/4 | 3/16 | ... | 7 | 2.05 |
| M1081 | 2023 | 1 1/8-1 1/8 | ... | 1 1/8-1/2 | ... | 9 1/4 | 3/8 | ... | 12 | 2.50 |
| M1081B | 2025 | 3/4-1 1/8 | ... | 1 1/8-3/8 | ... | 9 1/4 | 3/8 | ... | 12 | 2.50 |
| M1081A | 2026 | 3/4-3/4 | ... | 1 1/8-5/8 | ... | 9 1/4 | 3/8 | ... | 12 | 2.50 |
| M1083 | 2032 | 1-1 1/8 | ... | 1-5/8 | ... | 10 3/8 | 1/2 | ... | 1 | 3.10 |
| M1083B | 2035 | 1-1 1/8 | ... | 1-3/4 | ... | 10 3/8 | 1/2 | ... | 1 | 3.10 |
| M1083A | 2038 | 1-1 1/8 | ... | 1-3/4 | ... | 12 | 1/2 | ... | 2 | 3.90 |
| M1085 | 2041 | 1 1/8-1 1/4 | ... | 1 1/8-7/8 | ... | 12 | 1 1/2 | ... | 2 | 3.90 |
| M1085C | 2043 | 1 1/8-1 1/4 | ... | 1 1/8-3/4 | ... | 12 | 1 1/2 | ... | 2 | 3.90 |
| M1085B | 2044 | 1 1/8-1 1/4 | ... | 1 1/8-1 | ... | 12 | 1 1/2 | ... | 2 | 3.90 |

MOLYBDENUM STRUCTURAL WRENCHES



Nickel Plated, Straight Opening and Offset Head

The Structural Wrench, like the Construction Wrench, is used by men engaged in arduous labor, under the most dangerous conditions, where a man's life may be endangered by a weak wrench.

Billings' Chrome-Mo-lyb-den-um structural wrenches possess reserve strength in excess of any strain that the user may place on them. This additional strength and toughness is made possible by the use of Chrome-Mo-lyb-den-um steel—The Super-Alloy—(Billings' formula).

This alloy steel was selected for these wrenches by Billings' engineers in collaboration with the leading metallurgists in the Steel Industry after exhaustive tests and experiments with all known alloys.

This combination tool was designed originally for struc-

tural iron workers and for use on construction work where an offset wrench was necessary for clearance and for the protection of the hands of the user. This type of wrench is now very popular with machine erectors, truck and bus assemblers and repairmen who have found this wrench more practical for the work than ordinary wrenches because of its greater length, offset head and greater strength.

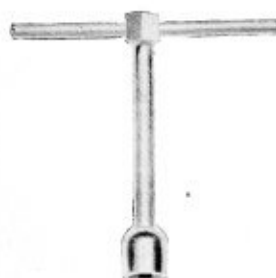
The tang is used for bringing bolt holes into alignment and serves as a comfortable handle for the user.

These wrenches are finished in dull nickel over copper plate, a practical rust-proof finish. They are hardened and tempered by our exclusive method, under the most complete scientific heat control devices, insuring that These Powerful Wrenches Will Last a Life-Time.

| No. | Equiv. B. & S. Carbon Wrench | Milled Open- ings | U.S.S. Bolt Size | Hex. Hd. Cap. Sc. Size | S.A.E. Nut and Bolt Size | Extreme Length | Thick- ness of Head | Handles Offset | Weight | | Nickel Plated Each |
|-------|---------------------------------------|-------------------------|------------------------|------------------------------|--------------------------------|-------------------|---------------------------|-------------------|--------|------|--------------------------|
| | | | | | | | | | Lbs. | Ozs. | |
| M1903 | 1702 | 1 1/8 | 3/4 | ... | ... | 9 1/2 | 1/2 | 7/8 | ... | 7 | \$2.35 |
| M1904 | 1703 | 1 1/8 | 7/8 | ... | ... | 9 1/2 | 1/2 | 7/8 | ... | 7 | 2.35 |
| M1905 | 1704 | 1 1/8 | 1 | ... | ... | 11 3/4 | 1 1/2 | 1 | ... | 12 | 3.15 |
| M1906 | 1705 | 1 | 1 1/8 | ... | ... | 11 3/4 | 1 1/2 | 1 | ... | 12 | 3.15 |
| M1907 | 1706 | 1 1/4 | 5/8 | ... | ... | 13 1/2 | 5/8 | 1 1/4 | 1 | 9 | 4.40 |
| M1908 | 1707 | 1 1/2 | 3/4 | 1 | ... | 15 1/2 | 1 1/2 | 1 1/4 | 2 | 10 | 6.00 |
| M1909 | 1708 | 1 1/2 | 7/8 | 1 1/4 | ... | 17 | 3/4 | 1 1/2 | 3 | 11 | 8.15 |
| M1910 | 1709 | 1 1/2 | 1 | 1 3/8 | 1 1/2 | 19 | 1 1/2 | 1 3/4 | 3 | 15 | 11.35 |

T HANDLE SOCKET WRENCHES

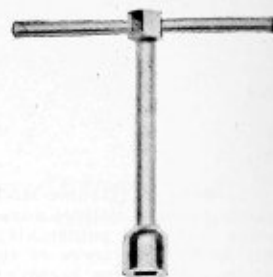
BILLINGS & SPENCER



Hexagon Opening.

With Pin Handle

These Socket Wrenches are drop forged from specially selected open hearth steel to our specifications. The steel is analyzed in our modern metallurgical laboratory before being used. In addition these tools are heat treated after machining to toughen and harden the steel. They are smoothly polished and finished in our attractive "Duro" black rust-proof finish.



Square Opening.

With Hexagon Openings

| Wrench Nos. | Trade Nos. | For U. S. Standard Nut, Size Bolt | For Cap Screw, Diameter Screw | S. A. E. Standard Screw and Nut | Short Diameter Broached Opening, Inches | Extreme Length, Inches | Diam. Head, Inches | Hex. End Same Size as U. S. Nut for Size Bolt, Inches | Length of Pin Handle, Inches | Weight Each | | Each |
|-------------|------------|-----------------------------------|-------------------------------|---------------------------------|---|------------------------|--------------------|---|------------------------------|-------------|--------|--------|
| | | | | | | | | | | Lbs. | Ounces | |
| 721X | | | | | .260 | 4 | 3/8 | 1/8 | 4 | | 2 | \$0.80 |
| 720A | | | | | .260 | 4 | 1/2 | 1/8 | 4 | | 2 | .80 |
| 721A | 961A | 1/8 | | | .260 | 4 | 1/2 | 1/8 | 4 | | 2 | .80 |
| 721B | | | | | .260 | 4 | 1/2 | 1/8 | 4 | | 2 | .80 |
| 722A | 962D | | 3/8 | | .260 | 4 1/2 | 5/8 | 1/4 | 4 1/2 | | 3 1/2 | .88 |
| 722B | 963A | 1/8 | | | .260 | 4 1/2 | 5/8 | 1/4 | 4 1/2 | | 3 1/2 | .98 |
| 722C | 963D | 1/4 | 1/4 | 1/4 | .260 | 4 1/2 | 5/8 | 1/4 | 4 1/2 | | 3 1/2 | .98 |
| 723A | 964A | 1/4 | 1/2 | 1/2 | .260 | 5 3/4 | 3/4 | 5/8 | 5 3/4 | | 5 | 1.04 |
| 724A | 965D | | 3/8 | 3/8 | .260 | 5 3/4 | 3/4 | 5/8 | 5 3/4 | | 7 | 1.16 |
| 724B | 965A | 1/8 | | | .260 | 5 3/4 | 3/4 | 5/8 | 5 3/4 | | 7 | 1.16 |
| 725A | 966D | | 1/2 | 1/2 | .260 | 6 1/4 | 1 | 1/2 | 6 1/4 | | 11 | 1.26 |
| 725B | 967A | 3/8 | | | .260 | 6 1/4 | 1 1/4 | 1/2 | 6 1/4 | | 11 | 1.42 |
| 725C | 967D | | 1/2 | 1/2 | .260 | 6 1/4 | 1 1/4 | 1/2 | 6 1/4 | | 11 | 1.42 |
| 726A | 968A | 1/8 | | | .260 | 7 | 1 1/4 | 1/2 | 7 | 1 | 2 | 1.54 |
| 726B | 968D | | 1/2 | 1/2 | .260 | 7 | 1 1/4 | 1/2 | 7 | 1 | 2 | 1.54 |
| 726C | 969A | 1/2 | 3/8 | 3/8 | .260 | 7 | 1 1/4 | 1/2 | 7 | 1 | 2 | 1.74 |
| 727X | | | | 3/8 | .260 | 7 3/8 | 1 1/2 | 1/2 | 7 3/8 | 1 | 11 | 1.96 |
| 727A | 970A | 1/8 | | | .260 | 7 3/8 | 1 1/2 | 1/2 | 7 3/8 | 1 | 11 | 1.96 |
| 727B | 970D | | 3/8 | 3/8 | 1 1/4 | 7 3/8 | 1 1/2 | 1/2 | 7 3/8 | 1 | 11 | 1.96 |
| 728A | 971A | 3/8 | | 3/8 | 1 1/4 | 8 5/8 | 1 5/8 | 3/4 | 8 5/8 | 2 | 6 | 2.20 |
| 728B | 971D | | 3/8 | 3/8 | 1 1/4 | 8 5/8 | 1 5/8 | 3/4 | 8 5/8 | 2 | 6 | 2.60 |
| 729A | 973A | 3/4 | 1 | 7/8 | 1 1/4 | 9 1/4 | 1 7/8 | 3/4 | 9 1/4 | 3 | 2 | 3.00 |
| 730A | 974D | | 1 1/8 | | 1 1/4 | 10 | 2 1/4 | 7/8 | 10 | 4 | 6 | 3.40 |
| 730B | 975A | 3/8 | | | 1 1/4 | 10 | 2 1/4 | 7/8 | 10 | 4 | 6 | 3.70 |
| 730C | 975D | | 1 1/4 | 1 | 1 1/4 | 10 | 2 1/4 | 7/8 | 10 | 4 | 6 | 3.70 |
| 731A | 976A | 1 | | 1 1/8 | 1 1/4 | 10 3/4 | 2 1/2 | 1 | 10 3/4 | 6 | 3 | 4.24 |

With Square Openings

| Wrench Nos. | Trade Nos. | For U. S. Standard Nut, Size Bolt | For Cap Screw, Diameter Screw | For Set Screw, Size Screw | Short Diameter Broached Opening, Inches | Extreme Length, Inches | Diam. Head, Inches | Hex. End Same Size as U. S. Nut for Size Bolt, Inches | Length of Pin Handle, Inches | Weight Each | | Each |
|-------------|------------|-----------------------------------|-------------------------------|---------------------------|---|------------------------|--------------------|---|------------------------------|-------------|--------|--------|
| | | | | | | | | | | Lbs. | Ounces | |
| 720J | 960H | | | 1/8 | 1/4 | 3 5/8 | 1 1/8 | 1/8 | 3 | | 1 | \$0.70 |
| 721J | 961H | | | 3/8 | 1/4 | 4 | 1 1/2 | 1/8 | 4 | | 2 | .80 |
| 721K | 961J | | | 1/4 | 1/4 | 4 | 1 1/2 | 1/8 | 4 | | 2 | .80 |
| 722J | 962H | | | 1/8 | 1/4 | 4 1/2 | 5/8 | 1/4 | 4 1/2 | | 3 1/2 | .88 |
| 723J | 963H | 1/4 | 3/8 | | 1/4 | 5 1/4 | 3/4 | 5/8 | 5 1/4 | | 5 | .98 |
| 724J | 965H | 1/8 | 1/2 | | 1/4 | 5 3/4 | 3/4 | 5/8 | 5 3/4 | | 7 | 1.16 |
| 725J | 966H | 1/4 | 3/8 | 1/2 | 1/4 | 6 1/4 | 1 | 1/2 | 6 1/4 | | 11 | 1.26 |
| 725K | 967H | | 1/2 | 1/2 | 1/4 | 6 1/4 | 1 1/4 | 1/2 | 6 1/4 | | 11 | 1.42 |
| 726J | 967X | 1/8 | | | 1/4 | 7 | 1 1/4 | 1/2 | 7 | 1 | 2 | 1.42 |
| 726K | 968H | | 1/2 | 5/8 | 1/4 | 7 | 1 1/4 | 1/2 | 7 | 1 | 2 | 1.54 |
| 726L | 968P | 3/8 | 1/2 | | 1/4 | 7 | 1 1/4 | 1/2 | 7 | 1 | 2 | 1.54 |
| 727J | 969H | | 5/8 | 3/4 | 1/4 | 7 3/8 | 1 1/2 | 5/8 | 7 3/8 | 1 | 11 | 1.74 |
| 727K | 970X | 1/8 | | | 1/4 | 7 3/8 | 1 1/2 | 5/8 | 7 3/8 | 1 | 11 | 1.96 |
| 728J | 971H | 1/2 | 3/4 | 7/8 | 1/4 | 8 5/8 | 1 5/8 | 3/4 | 8 5/8 | 2 | 6 | 2.20 |
| 729J | 971X | 1/8 | | | 1/4 | 9 1/4 | 1 7/8 | 3/4 | 9 1/4 | 3 | 2 | 2.60 |
| 729K | 973H | | | 1 | 1 1/4 | 9 1/4 | 1 7/8 | 3/4 | 9 1/4 | 3 | 2 | 3.00 |
| 729L | 974X | 5/8 | | | 1 1/4 | 9 1/4 | 1 7/8 | 3/4 | 9 1/4 | 3 | 2 | 3.40 |
| 730J | 974H | | 3/8 | 1 1/8 | 1 1/4 | 10 | 2 1/4 | 7/8 | 10 | 4 | 6 | 3.40 |
| 730K | 976H | 3/4 | 1 | 1 1/4 | 1 1/4 | 10 | 2 1/4 | 7/8 | 10 | 4 | 6 | 4.24 |
| 731J | 977N | | 1 1/8 | | 1 1/4 | 10 3/4 | 2 1/2 | 1 | 10 3/4 | 6 | 3 | 4.80 |
| 731K | 977X | 3/8 | | | 1 1/4 | 10 3/4 | 2 1/2 | 1 | 10 3/4 | 6 | 3 | 4.80 |
| 732J | 977P | | 1 1/4 | | 1 1/4 | 11 3/8 | 2 3/4 | 1 1/4 | 11 3/8 | 7 | 4 | 4.80 |
| 732K | 978P | 1 | 1 3/8 | | 1 1/4 | 11 3/8 | 2 3/4 | 1 1/4 | 11 3/8 | 7 | 4 | 5.70 |

OFFSET HANDLE SOCKET WRENCHES

BILLINGS & SPENCER

"Duro" Black Rust-Proof Finish.

Drop Forged from Specially Selected
Open Hearth Steel, Heat Treated After
Machining.



Hexagon Openings.



Square Openings.

With Hexagon Openings.

| Wrench Nos. | Trade Nos. | For U. S. Std. Nut, Size Bolt | For Cap Screw, Diam. of Screw | S. A. E. Standard Screw and Nut | Short Diam. of Broached Opening, Inches | From Face of Wrench to Handle, Inches | Diam. of Head, Inches | Length of Handle, Inches | Diameter of Handle, Inches | Weight Each | | Each |
|-------------|------------|-------------------------------|-------------------------------|---------------------------------|---|---------------------------------------|-----------------------|--------------------------|----------------------------|-------------|--------|--------|
| | | | | | | | | | | Lbs. | Ounces | |
| 821A | 261A | 1/8 | ..... | ..... | 1/8 | 3/4 | 1/2 | 3 1/4 | 1/4 | ..... | 1 | \$0.60 |
| 822A | 262D | ..... | 1/8 | ..... | 1/8 | 3/4 | 5/8 | 4 | 3/8 | ..... | 3 | .66 |
| 822B | 263A | 1/16 | ..... | ..... | 1/16 | 3/4 | 5/8 | 4 | 3/8 | ..... | 3 | .72 |
| 822C | 263D | ..... | 1/4 | 1/4 | 1/8 | 3/4 | 5/8 | 4 | 3/8 | ..... | 3 | .72 |
| 823A | 264A | 1/4 | 1/8 | 1/8 | 1/8 | 1 1/4 | 3/4 | 4 3/4 | 3/8 | ..... | 4 | .78 |
| 824A | 265D | ..... | 3/8 | 3/8 | 1/8 | 1 1/8 | 3/4 | 5 1/2 | 1/2 | ..... | 5 | .88 |
| 824B | 265A | 1/8 | ..... | ..... | 1/8 | 1 1/8 | 3/8 | 5 1/2 | 1/2 | ..... | 5 | .88 |
| 825A | 266D | ..... | 1/2 | 1/2 | 1/8 | 1 1/2 | 1 | 6 1/4 | 1/2 | ..... | 9 | .96 |
| 825B | 267A | 3/8 | ..... | ..... | 1/8 | 1 3/4 | 1 1/8 | 7 | 1/2 | ..... | 10 | 1.08 |
| 825C | 267D | ..... | 1/2 | 1/2 | 1/8 | 1 3/4 | 1 1/8 | 7 | 1/2 | ..... | 10 | 1.08 |
| 826A | 268A | 1/2 | ..... | ..... | 1/8 | 2 | 1 1/4 | 7 3/4 | 5/8 | 1 | ..... | 1.20 |
| 826B | 268D | ..... | 3/8 | ..... | 1/8 | 2 | 1 1/4 | 7 3/4 | 5/8 | 1 | ..... | 1.20 |
| 826C | 269A | 1/2 | 3/8 | 3/8 | 1/8 | 2 | 1 1/4 | 7 3/4 | 5/8 | 1 | ..... | 1.38 |
| 827A | ..... | ..... | ..... | ..... | 1/8 | 2 3/8 | 1 1/2 | 8 1/2 | 1/2 | 1 | 6 | 1.56 |
| 827A | 270A | 1/2 | ..... | ..... | 1/8 | 2 3/8 | 1 1/2 | 8 1/2 | 1/2 | 1 | 6 | 1.56 |
| 827B | 270D | ..... | 3/4 | 1 1/2 | 1 1/8 | 2 3/8 | 1 1/2 | 8 1/2 | 1/2 | 1 | 6 | 1.56 |
| 828A | 271A | 3/8 | ..... | 3/4 | 1 1/8 | 2 1/2 | 1 5/8 | 9 1/4 | 3/4 | 1 | 15 | 1.80 |
| 828B | 271D | ..... | 3/8 | ..... | 1 1/8 | 2 1/2 | 1 5/8 | 9 1/4 | 3/4 | 1 | 15 | 1.80 |
| 829A | 273A | 3/4 | 1 | 3/8 | 1 3/8 | 2 1/8 | 1 7/8 | 10 | 3/8 | 2 | 11 | 2.40 |
| 830A | 274D | ..... | 1 1/8 | ..... | 1 1/8 | 3 3/8 | 2 1/8 | 10 3/4 | 1 | 3 | 5 | 2.70 |
| 830B | 275A | 3/8 | ..... | ..... | 1 1/8 | 3 3/8 | 2 1/8 | 10 3/4 | 1 | 3 | 5 | 3.00 |
| 830C | 275D | ..... | 1 1/4 | 1 | 1 1/8 | 3 3/8 | 2 1/8 | 10 3/4 | 1 | 3 | 5 | 3.00 |
| 831A | 276A | 1 | ..... | 1 1/8 | 1 1/8 | 3 3/8 | 2 1/2 | 11 1/2 | 1 1/8 | 5 | 5 | 3.44 |

With Square Openings.

| Wrench Nos. | Trade Nos. | For U. S. Standard Sq. Nut, Size Bolt | For Cap Screw, Diam. of Screw | For Set Screw, Size Screw | Short Diam. of Broached Opening, Inches | From Face of Wrench to Handle, Inches | Diam. of Head, Inches | Length of Handle, Inches | Diameter of Handle, Inches | Weight Each | | Each |
|-------------|------------|---------------------------------------|-------------------------------|---------------------------|---|---------------------------------------|-----------------------|--------------------------|----------------------------|-------------|--------|--------|
| | | | | | | | | | | Lbs. | Ounces | |
| 820J | 260H | ..... | ..... | 1/8 | 1/8 | 3/4 | 1 1/2 | 2 3/4 | 3/8 | ..... | 1 | \$0.54 |
| 821J | 261H | ..... | ..... | 1/8 | 1/8 | 3/4 | 1 1/2 | 3 1/4 | 1/4 | ..... | 1 | .60 |
| 821K | 261J | ..... | ..... | 1/4 | 1/4 | 3/4 | 1 1/2 | 3 1/4 | 1/4 | ..... | 1 | .60 |
| 822J | 262H | ..... | ..... | 1/8 | 1/8 | 3/4 | 1 1/2 | 4 | 3/8 | ..... | 3 | .66 |
| 823J | 263H | ..... | 1/4 | 3/8 | 1/8 | 1 1/4 | 3/4 | 4 3/4 | 3/8 | ..... | 4 | .72 |
| 824J | 265H | ..... | 3/8 | 1/2 | 1/8 | 1 1/8 | 3/4 | 5 1/2 | 1/2 | ..... | 5 | .88 |
| 825J | 266H | 1/4 | 3/8 | 1/2 | 1/8 | 1 1/8 | 1 | 6 1/4 | 1/2 | ..... | 9 | .96 |
| 825K | 267H | ..... | 1/2 | 1/2 | 1/8 | 1 3/4 | 1 1/8 | 7 | 1/2 | ..... | 10 | 1.08 |
| 826J | 267X | 1/8 | ..... | ..... | 1/8 | 2 | 1 1/4 | 7 3/4 | 5/8 | 1 | ..... | 1.08 |
| 826K | 268H | ..... | 1/2 | 5/8 | 1/8 | 2 | 1 1/4 | 7 3/4 | 5/8 | 1 | ..... | 1.20 |
| 826L | 268P | 3/8 | 1/2 | ..... | 1/8 | 2 | 1 1/4 | 7 3/4 | 5/8 | 1 | ..... | 1.20 |
| 827J | 269H | ..... | 3/8 | 3/4 | 1/8 | 2 3/8 | 1 1/2 | 8 1/2 | 1/2 | 1 | 6 | 1.38 |
| 827K | 270X | 1/2 | ..... | ..... | 1/8 | 2 3/8 | 1 1/2 | 8 1/2 | 1/2 | 1 | 6 | 1.56 |
| 828J | 271H | 1/2 | 3/4 | 3/8 | 1/8 | 2 1/2 | 1 5/8 | 9 1/4 | 3/4 | 1 | 15 | 1.80 |
| 829J | 271X | 1/2 | ..... | ..... | 1/8 | 2 1/2 | 1 7/8 | 10 | 3/8 | 2 | 11 | 1.80 |
| 829K | 273H | ..... | ..... | 1 | 1 1/8 | 2 1/8 | 1 7/8 | 10 | 3/8 | 2 | 11 | 2.40 |
| 829L | 274X | 3/8 | ..... | ..... | 1 1/8 | 2 1/8 | 1 7/8 | 10 | 3/8 | 2 | 11 | 2.70 |
| 830J | 274H | ..... | 3/8 | 1 1/8 | 1 1/8 | 3 3/8 | 2 1/8 | 10 3/4 | 1 | 3 | 5 | 2.70 |
| 830K | 276H | 3/4 | 1 | 1 1/4 | 1 1/8 | 3 3/8 | 2 1/8 | 10 3/4 | 1 | 3 | 5 | 3.44 |
| 831J | 277N | ..... | 1 1/8 | ..... | 1 1/8 | 3 3/8 | 2 1/2 | 11 1/2 | 1 1/8 | 5 | 5 | 3.90 |
| 831K | 277X | 3/8 | ..... | ..... | 1 1/8 | 3 3/8 | 2 1/2 | 11 1/2 | 1 1/8 | 5 | 5 | 3.90 |
| 832J | 277P | ..... | 1 1/4 | ..... | 1 1/8 | 3 3/8 | 2 3/4 | 12 1/4 | 1 1/2 | 6 | ..... | 3.90 |
| 832K | 278P | 1 | 1 3/8 | ..... | 1 1/8 | 3 3/8 | 2 3/4 | 12 1/4 | 1 1/2 | 6 | ..... | 4.80 |

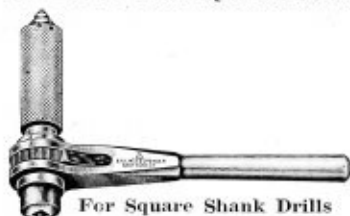
RATCHETS

BILLINGS & SPENCER PACKER

The single-acting ratchet drill is so constructed that when the pressure is exerted on the handle the pawl is supported by the heavy drop forged frame of the ratchet. This prevents slippage and breakage, and relieves the strain on the drop forged pawl.

Because the ratchet drill is an emergency tool, the Billings Genuine Packer Ratchet Drills are built extra heavy and with wider bearings throughout. In an emergency one must have a tool which is dependable and durable, and equipment buyers realize that the slight additional cost of the Genuine Billings Ratchet Drills over the more cheaply constructed substitutes is very economical insurance. All the working parts in the Billings Ratchet Drills are hardened and tempered.

SINGLE ACTING SQUARE SOCKET



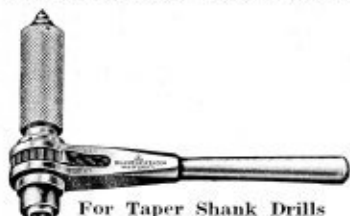
For Square Shank Drills

Drop Forged Steel, Dull Black Finish, Working Parts Hardened.

| Nos. | AE1 | AE2 | AE3 | AE4 | AE5 |
|---------------------|---------|-------|-------|--------|--------|
| Length Handle, In. | 10 1/2 | 13 | 16 | 18 | 20 |
| Size Square Socket. | 1 | 1 | 1 | 2 | 2 |
| Length Head, In. | 7 1/4 | 8 | 9 1/4 | 9 3/4 | 10 3/4 |
| Feed, In. | 2 1/4 | 2 1/2 | 3 | 3 1/2 | 4 |
| Weight Each, Lbs. | 4 1/2 | 6 1/2 | 9 3/4 | 11 1/2 | 15 3/4 |
| Each | \$10.50 | 13.50 | 16.00 | 19.00 | 23.00 |

One in a Box.

SINGLE ACTING TAPER SOCKET



For Taper Shank Drills

Drop Forged Steel, Dull Black Finish, Working Parts Hardened.

| Nos. | AG1 | AG2 | AG3 | AG4 |
|-------------------------|------------|------------|--------------|------------|
| Length Handle, In. | 10 1/2 | 13 | 16 | 18 |
| Size Taper Socket. | 1 | 2 | 3 | 4 |
| For Morse T. S. Drills, | | | | |
| Inches | 1/8 to 3/8 | 3/8 to 1/2 | 1/2 to 1 1/4 | 1 1/4 to 2 |
| Length of Head, In. | 6 3/4 | 7 3/4 | 9 1/4 | 10 1/4 |
| Feed, In. | 1 3/4 | 2 | 2 3/4 | 3 3/4 |
| Weight Each, Lbs. | 5 | 6 1/2 | 9 1/2 | 11 |
| Each | \$13.00 | 16.00 | 20.00 | 25.00 |

One in a Box.



For Square Shank Drills

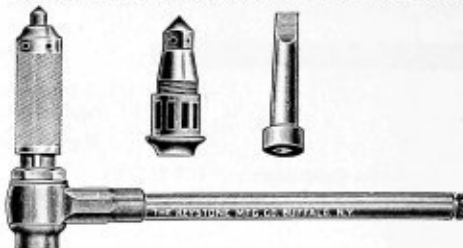
Drop Forged Steel, Dull Black Finish, Working Parts Hardened.

| Nos. | AF1 | AF2 |
|-------------------------|--------|-------|
| Length Handle, Inches. | 10 1/2 | 13 |
| Size Square Socket. | 1 | 1 |
| Length of Head, Inches. | 4 1/4 | 5 |
| Feed, Inches. | 1 1/4 | 1 3/4 |
| Weight Each, Lbs. | 3 3/4 | 5 1/4 |
| Each | \$9.00 | 10.50 |

One in a Box.

RATCHETS

KEYSTONE REVERSIBLE COMBINATION



Ratchet for Taper Shank Twist Drills, Sleeve for Square Shank Drills and Short Boiler Socket for Square Shank Drills.

Steel Tubing Handle with Rod for Reverse Motion.

Each

| | |
|---|---------|
| No. 51—10 in. Handle, Sockets Take No. 2 Morse Taper or No. 1 Square Shank Drills, Weight Each 4 Lbs., 14 Oz. | \$ 7.75 |
| No. 52—14 in. Handle, Sockets Take No. 3 Morse Taper or No. 1 Square Shank Drills, Weight Each 9 Lbs. | 9.00 |
| No. 53—16 in. Handle, Sockets Take No. 3 Morse Taper or No. 1 Square Shank Drills, Weight Each 10 Lbs., 2 Oz. | 10.00 |
| No. 54—18 in. Handle, Sockets Take No. 4 Morse Taper or No. 2 Square Shank Drill, Weight Each 16 1/2 Lbs. | 11.75 |

One in a Box.

RENSHAW



All Parts Hardened Steel

No. 1 has one collet for square shank drills to 1/2 inch and one collet fitting No. 1 Morse taper socket.

No. 3 has one collet, for square shank drills, and 3 collets, Nos. 1, 2 and 3 for Morse taper shanks. Collets are held in the spindle by screw thread. Nos. 1 and 2 collets fit No. 3 socket.

The No. 3 ratchet, for boiler-makers, is provided with an extended feed-screw, having a knurled shank 3 1/2 in. long. When this extended screw is substituted for the regular one, the price is not changed; if it is taken as an extra attachment, it is \$3.50.

| | | |
|--|---------|-------|
| Nos. | 1 | 3 |
| Length of Handles Over All, Inches. | 9 1/2 | 18 |
| Depth from Top Feed Screw to Bottom of Collet, Inches. | 2 1/2 | 5 |
| Length of Feed, Inches. | 1 1/2 | 2 3/4 |
| Each, Complete | \$11.00 | 15.00 |

One in a Box.

DRILLING POSTS

ARMSTRONG

For Use with Ratchet Drills, Drop Forged Steel

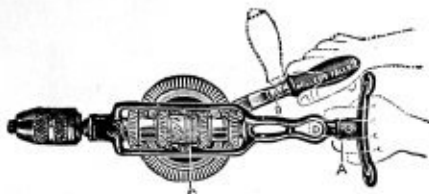
Foot and Arm are Drop Forged. The finished steel post is screwed into foot and can be easily removed for packing in tool kit. Each Drilling Post is boxed separately.

| | | | |
|--------------------|--------|-------|-------|
| Nos. | 8 | 10 | 12 |
| Height Post, In. | 16 | 20 | 26 |
| Diam. of Post, In. | 1 | 1 1/4 | 1 1/2 |
| Arm Radius, In. | 8 | 10 | 12 |
| Each | \$6.00 | 8.00 | 10.00 |



BREAST DRILLS

MILLERS FALLS



Ratchet, Auxiliary Breast Plate, Ball Thrust Bearing

Black Enameled Iron Frame, Nickel Plated Parts, Right and Left and Continuous Ratchet, Two Speeds Even and 2 $\frac{1}{2}$ to 1 Double Gear Drive, Adjustable Crank Handle.

Each

No. 97—17 $\frac{1}{2}$ in. Long, Three Jaw Chuck Holding 0 to $\frac{1}{2}$ in. Round Shanks, Weight Each 8 $\frac{1}{4}$ Lbs. \$11.65
One in a Box.



Ratchet, Auxiliary Breast Plate, Ball Thrust Bearing

The same as No. 97 in every particular, except has Master Two Jaw Chuck. The advantage of this type of Chuck lies in the Patent Milled Forged Steel Jaws that hold Bit Stock or Round Shank from $\frac{1}{8}$ to $\frac{1}{2}$ in., and No. 1 Morse Taper Shanks.

Each

No. 87—17 in. Long, Weight Each 8 Lbs. \$10.90
One in a Box.



With Three Jaw Chuck

Black Painted Malleable Iron Frame, Red Painted, Large Gear, Black Painted Breast Plate and Crank, Cut Gears, Steel Small Gears, Changeable Speed from 1 $\frac{1}{2}$ to 1 and 4 to 1, Adjustable Breast Plate, Auxiliary Side Handle, Stained Hardwood Handles.

Each

No. 2100—17 $\frac{1}{2}$ in. Long, Three Jaw Chuck Holding 0 to $\frac{1}{2}$ in. Round Shanks, Weight Each 6 Lbs. \$5.25
One in a Box.



Level Attachment, Ball Thrust Bearing

Black Enameled Malleable Iron Main Stock and Breast Plate, Red Enameled Large Gear, Nickel Plated Parts, Adjustable Breast Plate Extension Crank, Cut Gears, Large Gear with Idler Roll to Equalize Bearings, Changeable Speed from Even to 3 to 1.

Each

No. 118—17 $\frac{1}{2}$ in. Long, Three-Jaw Chuck, Holding 0 to $\frac{1}{2}$ in. Round Shanks, Weight Each 6 $\frac{1}{2}$ Lbs. \$7.50
One in a Box.

BREAST DRILLS

MILLERS FALLS



With Level Attachment, Ball Thrust Bearing

Black Enameled Malleable Iron Main Stock, Green Painted, Large Gear and Adjustable Breast Plate, Nickel Plated Parts, Cut Gears, Large Gear with Idler Roll to Equalize Bearings, Ball Thrust Bearing, Extension Crank with Radius from 4 to 6 in., Changeable Speed from Even to 3 to 1, Cocobolo Handles.

Each

No. 12—17 $\frac{1}{2}$ in. Long, with Master Chuck Holding Round Shank from $\frac{1}{4}$ to $\frac{1}{2}$ in. Diameter, All Sizes of Bit Stock and No. 1 Taper Shanks, Wt. Each 6 $\frac{1}{2}$ Lbs. \$6.60
One in a Box.



With Two Speeds.

Black Cast Iron Frame, Rolled Steel Main Stock, Large Gear Painted Red, Cut Gears, Ball Thrust Bearing, Adjustable Breast Plate and Crank, Changeable Speed from Even to 3 to 1, Stained Hardwood Handles.

Each

No. 19—18 in. Long, Barber Chuck Holding Bit Stock and Many Sizes of Round Shanks, Weight Each 6 Lbs. \$4.70
One in a Box.



With Ball Thrust Bearings

Black Enameled Cast Iron Frame and Breast Plate, Rolled Steel Main Stock, Large Gear Enameled Red, Other Parts Polished, Adjustable Breast Plate, Changeable Speed from Even to 3 to 1, Stained Hardwood Handles.

Each

No. 120—15 $\frac{1}{2}$ in. Long, Three Jaw Chuck, Capacity 0 to $\frac{1}{2}$ in. Round Shanks, Weight Each 5 $\frac{1}{4}$ Lbs. \$3.75
One in a Box.



For Home or Light Work

Black Enameled Cast Iron Frame and Breast Plate, Large Gear Enameled Red, Adjustable Breast Plate, Single Speed, Stained Hardwood Handles.

Each

No. 112—15 in. Long, Barber Chuck for Bit Stock Drills, Weight Each 4 Lbs. \$3.15
One in a Box.

BREAST DRILLS

GOODELL-PRATT

**Two Speed, Right and Left Hand Ratchet**

Aluminum Alloy Frame, Ebony Enamel Finish, Large Gear Enamelled Red, Saddle Design Leather Strap Breast Plate, Steel Gears and Pinions, Ball Bearing.

Each

No. 677—17½ in. Long, Three Jaw Chuck, Holding 0 to ½ in., Round Shanks, Weight Each 4½ Lbs. \$8.00

Changes of speed and changes of motion are both made by turning dial on back of frame. Give fast and slow, right or left hand ratchet or direct motion.

One in a Box.

**With Changeable Gears**

Black Iron Frame, Red Large Gear, Cut Teeth, 2 Speeds, Lathe Turned Spindle with Hardened End Running in Hardened Steel Cone Bearing, Steel Pinions, Adjustable Breast Plate, Hardwood Handles.

Each

No. 6—16 in. Long, Three-Jaw Chuck Holding 0 to ½ in. Round Shanks, Weight Each 5 Lbs. \$6.20

One in a Box.

STANLEY**With Three Jaw Chuck**

Black and Orange Enamelled Malleable Iron Frame, Adjustable Breast Plate, Cocobolo Handles, Level Set in Frame, Changeable Speed.

Each

No. 731—18 in. Long, Three Jaw Chuck Holding 0 to ½ in. Round Shanks, Weight Each 5½ Lbs. \$6.50

One in a Box.

**With Universal Chuck**

Black and Orange Enamelled Malleable Iron Frame, Adjustable Breast Plate, Cocobolo Handles, Level Set in Frame, Changeable Speed.

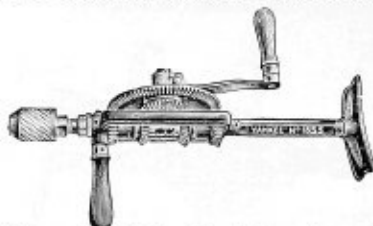
Each

No. 733—18½ in. Long, Universal Chuck for Bit Stock or Round Shank Drills, Weight Each 5½ Lbs. \$5.75

One in a Box.

BREAST DRILLS

YANKEE DOUBLE SPEED, BALL BEARING

**With Right and Left Hand and Continuous Ratchet Movement**

Dead Black Finished Malleable Iron Frame, Adjustable Ball Bearing, Steel Spindle, Cut Gears, Adjustable Breast Plate.

Each

No. 1555—17 in. Long, Nickel Plated Three-Jaw Chuck Holding Up to ½ in. Round Shanks Only, Weight Each 6¾ Lbs. \$12.50

One in a Box.

**With Right and Left Hand and Continuous Ratchet Movement**

Dead Black Finished Malleable Iron Frame, Adjustable Ball Bearing, Steel Spindle, Cut Gears, Adjustable Breast Plate.

Each

No. 555—18 in. Long, Nickel Plated Two-Jaw Chuck for Bit Stock or Round Shank Drills, Weight Each 6¾ Lbs. \$12.50

The change of speed on the double speed is made by pushing the little lever at the hub of the crank toward gear for fast speed and away from gear for slow speed.

One in a Box.

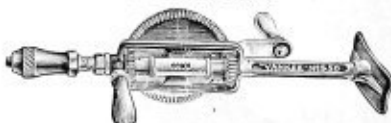
YANKEE SINGLE SPEED, BALL BEARING**With Right and Left Hand and Continuous Ratchet Movement**

Dead Black Finished Malleable Iron Frame, Adjustable Ball Bearing, Steel Spindle, Cut Gears, Adjustable Breast Plate.

Each

No. 1550—17 in. Long, Nickel Plated Three-Jaw Chuck, Holding Up to ½ in. Round Shanks Only, Weight Each 5¾ Lbs. \$10.50

One in a Box.

**With Right and Left Hand and Continuous Ratchet Movement**

Dead Black Finished Malleable Iron Frame, Adjustable Ball Bearing, Steel Spindle, Cut Gears, Adjustable Breast Plate.

Each

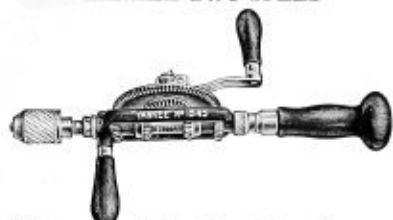
No. 550—18 in. Long, Nickel Plated Two-Jaw Chuck, for Bit Stock or Round Shank Drills, Weight Each 6¾ Lbs. \$10.50

Note—All the above Drills can be adjusted to different working by a shifter on cylinder. With slide in first notch the tool is a plain drill; in second, a left hand ratchet; in third, a right hand ratchet; in fourth, a double ratchet; in fifth, drill is locked to adjust chuck.

One in a Box.

HAND DRILLS**YANKEE**

These Drills can be adjusted to different workings by a shifter on the cylinder, with slide in first notch the tool is a Plain Drill; in second, a Left Hand Ratchet; in third, a Right Hand Ratchet; in fourth, a Double Ratchet; in fifth, Drill is locked to adjust chuck.

YANKEE TWO SPEED

With Right and Left Hand and Continuous Ratchet Movement.

Dead Black Finished Malleable Iron Frame, Adjustable Ball Bearings, Steel Spindle, Cut Gears, $4\frac{1}{2} \times 2\frac{1}{2}$ in. Detachable Polished Hollow Hardwood Handle. Each

No. 1545—16 in. Long, Nickel Plated Three-Jawed Chuck Holding Up to $\frac{3}{8}$ in. Diameter Round Shanks Only, without Drill Points, Weight Each $4\frac{1}{4}$ Lbs. \$10.75

One in a Box.



With Right and Left Hand and Continuous Ratchet Movement.

Dead Black Finished Malleable Iron Frame, Adjustable Ball Bearings, Steel Spindle, Cut Gears, $4\frac{1}{2} \times 2\frac{1}{2}$ in. Detachable Polished Hollow Hardwood Handle. Each

No. 545—16½ in. Long, Nickel Plated Two-Jawed Chuck Holding Square or Round Shank Drills Up to $\frac{3}{8}$ in., without Drill Points, Weight Each $4\frac{1}{4}$ Lbs. \$10.75

One in a Box.

YANKEE RATCHET, SINGLE SPEED

With Right and Left Hand and Continuous Ratchet Movement.

Dead Black Finished Malleable Iron Frame, Adjustable Ball Bearing, Steel Spindle, Cut Gears, $4 \times 1\frac{1}{2}$ in. Detachable Hardwood Handle. Each

No. 1540—16 in. Long, Nickel Plated Three-Jawed Chuck, Holding Up to $\frac{3}{8}$ in. Diameter Round Shanks Only, without Drill Points, Weight Each $3\frac{1}{2}$ Lbs. \$8.75

One in a Box.



Right and Left Hand and Continuous Ratchet Movement.

Dead Black Finished Malleable Iron Frame, Steel Spindle, Cut Gears, $4 \times 1\frac{1}{2}$ in. Detachable Hollow Hardwood Handle. Each

No. 540—16½ in. Long, Nickel Plated Two-Jawed Chuck Holding Square or Round Shanks Up to $\frac{3}{8}$ in., without Drill Points, Weight Each $3\frac{1}{2}$ Lbs. \$8.75

One in a Box.

HAND DRILLS**YANKEE SINGLE SPEED**

With Right and Left Hand and Continuous Ratchet Movement.

Dead Black Finished Malleable Iron Frame, Steel Spindle, Cut Gears, $4 \times 1\frac{1}{2}$ in. Detachable Hollow Hardwood Handle.

No. 1530—10½ in. Long, Three-Jawed Chuck Holding Up to $\frac{3}{8}$ in. Round Shanks Only, without Drill Points, Weight Each $1\frac{1}{4}$ Lbs. \$5.75

This Drill can be adjusted to different workings by a shifter on cylinder, with slide in first notch the tool is a Plain Drill; in second, a Left Hand Ratchet; in third, a Right Hand Ratchet; in fourth, a Double Ratchet; in fifth, Drill is locked to adjust chuck.

One in a Box.

YANKEE RADIO

Specially Designed for Radio Work.

Enameled Large Gear, Other Parts Plated, Stained Hardwood Handle, 4 to 1 Ratio of Gears.

No. 1431—9½ in. Long, Three-Jawed Chuck Holding 0 to $\frac{3}{8}$ in. Round Shanks, Weight Each $1\frac{1}{2}$ Lbs. \$3.25

One in a Box.

MILLERS FALLS

Without Drill Points.

Solid Steel Frame, Red Large Gear, Nickel Plated Parts, Cut Gears, Steel Pinion, Stained Hardwood Handles, Hollow End Handle with Screw Cap, Detachable Side Handle.

No. 303—11¼ in. Long, Three-Jaw Chuck Holding 0 to $\frac{3}{8}$ inch Round Shanks, Weight Each $1\frac{1}{2}$ Lbs. \$2.85

One in a Box.



With Drill Points.

Long Black Enameled Malleable Iron Frame, Red Painted Large Gear with Wide Rim to be Grasped Between Thumb and Fingers when Delicate Work is Being Done, Nickel Plated Parts, Cut Gears with Idler Gear to Equalize Bearings, Ball Thrust Bearing, Hardwood Handles, Hollow End Handle with Screw Cap Containing Eight ($\frac{1}{8}$ to $\frac{1}{4}$ inch) Drill Points. Detachable Side Handle.

No. 5—12½ in. Long, Three-Jawed Chuck Holding 0 to $\frac{3}{8}$ in. Round Shanks, Weight Each $1\frac{3}{4}$ Lbs. \$3.70

One in a Box.

HAND DRILLS



Solid Steel Frame

Large Gear Red Enamelled, other parts Polished, Single Speed, Steel Pinions, Cut Gears, Stained Hardwood Handles, Idler Pinion to equalize bearings. Solid Main Handle, Detachable Side Handle.

Each

No. 7—12½ in. Long, Three-jaw Chuck, Holding Round Shanks 0 to ¾ in., Weight Each 2 Lbs...\$3.65
One in a Box.



With Drill Points

Black Enamelled Malleable Iron Frame, Red Large Gear, Nickel Plated Parts, Cut Gears with Adjustable Friction Roll to Equalize Bearings, Steel Pinion, Hardwood Handles, Hollow End Main Handle of Cocobolo with Screw Cap Shaped so Tool may be Used as a Breast Drill and Containing Eight (¾ to 1¼ in.) Drill Points. Detachable Side Handle.

Ball Thrust Bearings

Each

No. 2—14½ in. Long, Three-Jawed Chuck Holding 0 to ¾ in. Round Shanks, Weight Each 3¼ Lbs...\$5.35
One in a Box.



Ball Thrust Bearing

Black Enamelled Malleable Iron Frame, Red Large Gear, Nickel Plated Parts, Changeable Speed, Inclosed Steel Pinions and Shifting Device, Cut Gears with Adjustable Friction Roll to Equalize Bearings, Stained Hardwood Handles, Detachable Hollow End Handle Shaped so Tool may be used as Breast Drill, Detachable Side Handle.

Each

No. 980—15¾ in. Long, Three-Jawed Chuck Holding 0 to ¾ in. Round Shanks, Weight Each 3¼ Lbs...\$7.20
One in a Box.



Ball Thrust Bearing, Right and Left Hand Ratchet

Black Enamelled Malleable Iron Frame, Red Large Gear, Nickel Plated Parts, Changeable Speed, Inclosed Steel Pinions and Shifting Device, Cut Gears with Adjustable Friction Roll to Equalize Bearings, Stained Hardwood Handles, Detachable Hollow End Handle Shaped so Tool may be used as a Breast Drill, Detachable Side Handle.

Each

No. 1980—15¾ in. Long, Three-Jaw Chuck Holding 0 to ¾ in. Round Shanks, Weight Each 3¼ Lbs...\$8.90
One in a Box.

HAND DRILLS

GOODELL-PRATT



Without Drill Points

Black Iron Frame, Red Gears, Machine Cut Gears and Pinion, Solid Hardwood Handle, Nickel Plated Parts, Gears held in Mesh by Hardened Steel Guard.

Each

No. 655—11¾ in. Long, Three-Jawed Chuck Holding 0 to ¼ in. Round Shanks, Weight Each 15 Oz.\$1.80
One in a Box.



Without Drill Points

Jappanned Malleable Iron Frame, Red Enamelled Large Gear, Nickel Plated Cut Teeth, Solid Polished Hardwood Handle, Removable Polished Hardwood Side Handle

Each

No. 05—12½ in. Long, Nickel Plated Three-Jawed Steel Chuck, Capacity 0 to ¼ in., Weight Each 1½ Lbs.\$3.25
One in a Box.



Without Drill Points

Black Enamelled Malleable Iron Frame, Red Enamelled Large Gear, Ball Bearing Lathe Turned Steel Spindle, Double Gears, Cut Teeth, Two Speeds, Hollow Polished Cocobolo Handle with Screw Cap.

Each

No. 5½—14½ in. Long, Nickel Plated Three-Jawed Steel Chuck, Capacity 0 to ¾ in., without Drill Points, Weight Each 2¼ Lbs...\$5.50
One in a Box.

FEED FRAMES

GOODELL-PRATT AUTOMATIC

For Use with Goodell-Pratt Breast Drills No. 6
Black Enamelled Iron Parts, Steel Parts Polished.

When Breast Drill is fastened in this device by means of the three screws provided, it is converted into a Bench Drill with Automatic Feed.

Two different ratios of feed can be obtained by turning an adjusting screw provided for that purpose; combined with the two speeds on the Breast Drill, this makes four different feeds available.

The Automatic Feed can be instantly thrown out and the table raised or lowered by the hand feed.

Each

No. 277—9 in. Between Chuck and Table, Will Drill to Center of a 5 in. Circle, Weight Each 12 Lbs...\$8.00
One in a Box.



BENCH DRILLS

MILLERS FALLS

Ball Thrust Bearings, Automatic Feed with Two Grades of Positive Feed, Instantaneous Change of Speed, Speeded Even and $3\frac{1}{2}$ to 1.

Cast Iron Frame, Large Gear and Table; Steel Pinions, Feed Screw, Spindle and Chuck; Cast Iron Parts Painted Dark Gray Except Machined Parts, Large Gear Painted Red.

Each

No. 216—Height Above Bench 22 in., Height Over All 28 in., Traverse of Automatic Feed $2\frac{1}{2}$ in., Distance from Standard to Drilling Point $3\frac{3}{4}$ in., Distance from Table to Chuck

When Bottom of Table Bracket is Flush with the Bottom of Standard 8 in., $7\frac{1}{2}$ in. Diameter Machined and Slotted Table, Vertical Adjustment of Table Bracket $5\frac{3}{4}$ in., Vertical Adjustment of Table in its Bracket $2\frac{1}{2}$ in., Adjustable Crank with Radius from 3 to $6\frac{1}{2}$ in., Chuck Holds 0 to $\frac{1}{2}$ in. Round Shank Drills, Net Weight 30 Lbs., Gross Weight 50 Lbs. \$23.75

One in a Box.

MILLERS FALLS HAND FEED

With Two Speeds

A rigid, strongly built and accurate drill and thoroughly efficient hand feed drill.

Iron frame, enameled black, large gear table, two speed ratios $1\frac{1}{2}$ to 1 and 4 to 1 instantly changed, cut gears, steel pinions, extensible crank 3 to 6 in. radius, steel feed screw and chuck, large gear enameled red.

Each

No. 210—Height Over All 24 in., Maximum 9 in. from Table to Chuck, Table and Other Machined Parts Polished, Weight $27\frac{1}{2}$ Lbs. \$15.00

One in a Box.

MILLERS FALLS UNIVERSAL

Swivels to Any Position, Clamps at Any Height

Hand Feed, Steel Post and Feed Gears, Japanned Iron Frame, Two Speeds, Three-Jaw Chuck, Capacity 0 to $\frac{1}{2}$ in. Extension Crank, Ball Bearing.

Each

No. 21—Height of Standard 24 in., Weight Each 21 Lbs. Net \$15.00

One in a Box.

BENCH DRILL VISES

MILLERS FALLS

For No. 216 Bench Drill

Each

No. 217—With Swivel Jaw, Opens 2 $\frac{1}{2}$ in., Width of Jaw 2 $\frac{3}{4}$ in., Weight $4\frac{3}{4}$ Lbs. \$3.35

For No. 210 Bench Drill

Each

No. 219—Without Swivel Jaw, Opens 1 $\frac{1}{2}$ in., Width of Jaws 2 $\frac{1}{4}$ in., Weight Each 4 Lbs. \$2.70

BENCH DRILLS

YANKEE, BALL BEARING

With Automatic Friction and Ratchet Feeds

Dead Black Finished Frame, Nickel Plated Chuck, Complete with Wrench, Steel Spindle, Steel Chuck with Hardened Jaws, Gears Cut from the Solid Metal, Steel Feed Screw with Ball Bearings at End, Tempered Wearing Parts.

Each

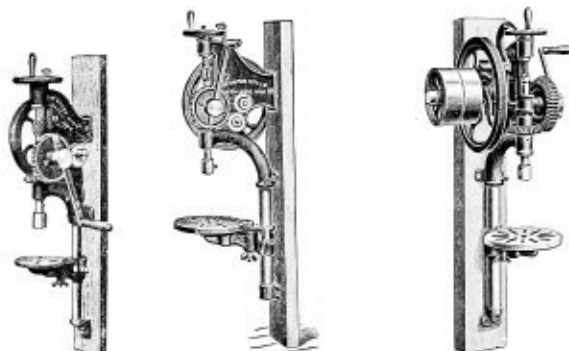
No. 1003—Single Speed, Traverse of Automatic Feed $1\frac{1}{2}$ in., Diameter of Table $4\frac{3}{4}$ in., Adjustment of Table in Bracket $1\frac{1}{4}$ in., Adjustment of Bracket $2\frac{3}{4}$ in., Extends Below Top of Bench $4\frac{1}{4}$ in., Extends Above Top of Bench $14\frac{1}{2}$ in., Length Over All $18\frac{3}{4}$ in., Chuck Holds up to $\frac{1}{4}$ in., Wt. Each 20 Lbs. \$16.50

No. 1005—Double Speed, Traverse of Automatic Feed 2 in., Diameter of Table $6\frac{3}{4}$ in., Adjustment of Table Bracket $1\frac{3}{4}$ in., Adjustment of Bracket 5 in., Extends Below Top of Bench 6 in., Extends Above Top of Bench 22 in., Length Over All 28 in., Chuck Holds up to $\frac{1}{2}$ in., Weight 57 Lbs. \$27.50

One in a Box.

POST DRILLS

SILVER



No. 21.

No. 22.

No. 23.

With Ball Bearings and Intermediate Gears

Adapted for small Repair Shops, Garages, etc. Steel Spindle and Shaft. Table moves up or down or to either side. All bearings are bored out of solid metal and reamed to a working fit. Perfect mesh machine moulded gears are used.

| Nos. | 21 | 22 | 23 |
|------------------------------------|----------------|----------------|----------------|
| Height, Inches | 38 | 48 | 50 |
| Diameter of Spindle, In. | 1 | 1 | $1\frac{1}{2}$ |
| Run of Spindle, Inches | 3 | $3\frac{3}{4}$ | 4 |
| Diameter of Column, Inches | $1\frac{3}{4}$ | $1\frac{1}{2}$ | 2 |
| Spindle to Table, Inches | 10 | 13 | 16 |
| Drills Holes to, Inches | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Drills to Center of Circle, Inches | 12 | 15 | 18 |
| Shipping Weight, Lbs. | 75 | 110 | 165 |
| Each | \$15.50 | \$18.50 | \$27.00 |

Spindles of these drills are bored for $\frac{1}{2}$ in. round shank drills.

CHAIN DRILLS

MILLERS FALLS



Ball Bearing.

Black Japanned Malleable Iron Frame, Polished Three-Jaw Chuck, Protected Springs, 4 ft. Chain.

Each

No. 719—Capacity 0 to $\frac{1}{2}$ in. Round Shank, Length with Chuck $11\frac{1}{4}$ in., Weight Each $4\frac{1}{2}$ Lbs. . . . \$5.20

An auxiliary tool for use with breast drill or brace when extra power is needed or when pressure cannot be easily applied. The drill is automatically fed into the work by an adjustable friction feed.

One in a Box.

MILLERS FALLS



Ball Bearing.

Japanned Frame, Nickel Plated Sockets and Bit Shanks, Complete with 4 ft. of Stout Chain.

Each

No. 718—Length with Chuck Inserted $11\frac{1}{2}$ in., with Plain Socket with $\frac{1}{2}$ in. Hole and Set Screw, Also Master Chuck for Holding Round Shanks from $\frac{1}{8}$ to $\frac{1}{2}$ in. Diameter, Bit Stock and No. 1 Morse Taper Shank, Weight Each $4\frac{1}{2}$ Lbs. . . \$4.95

This is an auxiliary tool for use with breast drill or bit brace, when extra power is needed or where pressure cannot be easily applied. The drill is automatically fed into the work by an adjustable friction feed which is automatically regulated by the resistance the drill encounters. Reverse movement of the brace withdraws drill.

One in a Box.

YANKEE



With Automatic Friction and Ratchet Feed.

Japanned Malleable Iron Frame, Ball Bearing Steel Screw.

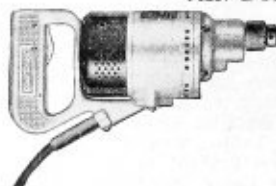
Each

No. 1500—9 $\frac{3}{4}$ in. Long, Nickel Plated Chuck Holding $\frac{1}{2}$ in. Diameter Round Shanks Only, Complete with 36 in. Steel Chain, Weight Each $3\frac{1}{4}$ Lbs. . . . \$6.50

The distinguishing feature of the Yankee Chain Drill is its convenience and rapidity of operation and automatic friction and ratchet feed. The taking up and releasing of chain is done in a moment with a friction feed by simply turning brace or breast drill by which chain drill is operated.

One in a Box.

ELECTRIC DRILLS

VAN DORN $\frac{1}{4}$ INCH

With Automatic Switch

A sturdy, serviceable tool of proper power, weight and speed for drilling the hundreds of smaller holes needed for service repairs and for mounting accessories.

Each

No. 8100— $\frac{1}{4}$ in. Capacity, $11\frac{3}{8}$ in. Long, D. C. or A. C. 60 Cycles, Speed 1500 R. P. M., Full Load 800 R. P. M., Grip Handle, Three-Jaw Chuck, 10 ft. Cable and Plug, Weight Each 6 Lbs. . . \$30.00
One in a Box.

VAN DORN $\frac{1}{2}$ INCH HEAVY DUTY

With Automatic Switch.

Delivers more power per pound than any other Universal Drill, Combination Spade and Breast Plate Handle, Three-Jaw Chuck.

Each

No. 8700— $\frac{1}{2}$ in. Capacity, 16 in. Long, D. C. or A. C. 60 Cycles, Speed 550 R. P. M., Full Load 315 R. P. M., 10 ft. Cable and Plug, Weight Each 16 Lbs. . . . \$60.00
One in a Box.

VAN DORN $\frac{3}{8}$ INCH

With Automatic Switch.

For strenuous repair operations or truck maintenance or any work where extraordinary reserve power is required.

Combination Spade and Breast Plate Handle, Three-Jaw Chuck.

Each

No. 8900— $\frac{3}{8}$ in. Capacity, $18\frac{1}{4}$ in. Long, D. C. or A. C. 60 Cycle, Speed 450 R. P. M., Full Load 225 R. P. M., 10 ft. Cable and Plug, Weight $22\frac{1}{2}$ Lbs. . . . \$75.00

One in a Box.

Note—The Above Drills are for use on 110 Volts. They can also be furnished for 220 or 32 Volts at \$4.00 Additional.

BENCH DRILLING STANDS

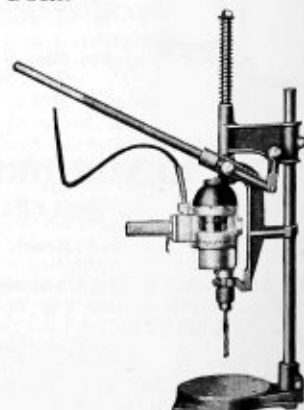
VAN DORN

For Use with $\frac{1}{4}$ in. or $\frac{3}{8}$ in. Van Dorn Electric Drill.

The Drill is attached to the Stand by means of an adapter plate which holds it rigidly in place. The tension spring lifts the drill out of the work instantly when the handle is released.

Each

No. 1295—37 in. High, Weight Each 56 Lbs. . . . \$28.00



ELECTRIC GRINDERS

VAN DORN, BENCH

Not a Universal Motor. Specify your Current when ordering. Regularly furnished for 110 Volt Single Phase.

6 INCH

Complete with two Grinding Wheels, Adjustable Tool Rests, Wheel Guards, Switch and Cable ready for use.

Guards can quickly be adjusted so that front end of Guard is always close to the Grinding Wheel.

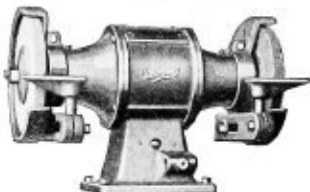
110 Volt, Single Phase, 60 Cycle

Each

No. 7000—6x½ in. Wheels, Speed 3600 R. P. M.,
Weight Each 38 Lbs. \$38.00

8 INCH

Complete with two Grinding Wheels, Adjustable Tool Rests, Wheel Guards, Switch and Boss for Twist Drill Grinding Attachment, fully enclosed ½ H. P. Motor. Ball Bearings properly mounted in dust-proof housings.



110 Volt, Single Phase, 60 Cycle

Each

No. 7900—8x¾ in. Wheels, Speed 3600 R. P. M.,
Weight Each 85 Lbs. \$95.00

8 INCH PEDESTAL TYPE

Complete with two Grinding Wheels, Adjustable Tool Rests, Wheel Guards, Switch and Boss for Twist Drill Grinding Attachment, fully enclosed ½ H. P. Motor. Ball Bearings properly mounted in dust-proof housing.

110 Volt, Single Phase, 60 Cycles

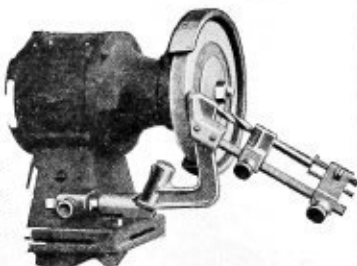
Each

No. 7900M—8x¾ in. Wheels, Speed 3600 R. P. M., Height from Floor to Shaft 42 in., Weight Each 160 Lbs. \$113.00

Any of the above grinders can be furnished 110 volt, 25, 40 or 50 Cycle A. C.; 32, 115 and 230 Volt D. C. and for 220 Volt Single Phase Current at \$4.00 additional.

TWIST DRILL GRINDING ATTACHMENT**For 8 Inch Grinders**

Quickly mounted to Boss provided for that purpose on the Van Dorn 8 Inch Grinder. Will sharpen twist drills up to ½ in. Micrometer adjustment insures equal cutting edges. Special recessed wheel for twist drill grinding furnished with the attachment.



Each

No. 7980—Weight Each 8 ¼ Lbs. \$36.00

ELECTRIC HAMMERS

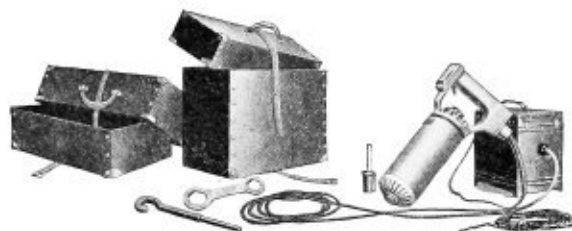
SYNTRON



Works on Any Lamp Socket

Only One Moving Part.
No Motor.
Only the Piston Moves.
One Man can Carry it.

The Syntron Electric Hammer is a portable electric tool having only one moving part—the piston, which moves back and forth in a bronze barrel 3600 times a minute. Striking 3600 blows a minute, the Syntron Electric Hammer enables one man to do the work of ten in drilling or chipping in masonry. It drills 3 in. a minute into concrete, operating from any light socket. When direct current only can be obtained, a rotary converter can be furnished. It is motorless and gearless. It cannot be stalled or overloaded.

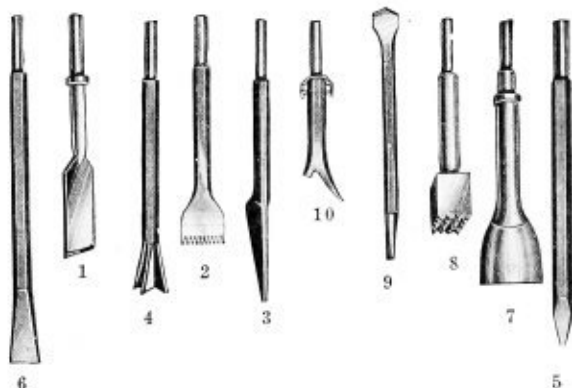


Complete Outfit

Syntron Hammers are furnished complete with Carrying Cases, Control Box, Rotating Wrench, Tool Chuck, Double End Socket Wrench, 15 ft. of Hammer Cable and 50 ft. of Cord with Attachment.

Each

Type F—11 in. Long, 3 ½ in. Diameter, Drilling Capacity ½ in., Weight Each 9 Lbs. \$150.00
Type A—13 in. Long, 3 ¾ in. Diameter, Drilling Capacity 1 in., Weight Each 17 Lbs. 200.00
Type B—13 ½ in. Long, 5 in. Diameter, Drilling Capacity 1 ½ in., Weight Each 26 Lbs. 250.00

BITS FOR SYNTRON HAMMERS

No. 1—Mortar Chisel.
No. 2—Tooth Chisel.
No. 3—Cape Chisel.
No. 4—Star Drill.
No. 5—Stone Point.

No. 6—Cold Chisel.
No. 7—Brick Chisel.
No. 8—Bush Hammer.
No. 9—Diamond Point.
No. 10—Beading Tool.

Prices on Application.

TOOL GRINDERS

NIAGARA

With Carborundum Wheels

Gray Iron, Oil-Tight Cases. Accurately Cut Gears which run smooth and practically noiseless. Baked Brown Enamel Finish. Nickel Plated Adjustable Steel Tool Rest. Long Flat Base with Clamp; can also be fastened permanent with screws or bolts.

In workmanship, design and mechanical construction, these Grinders are in a class all their own. Every part is accurately made and carefully assembled.



| Nos. | 1 | 2 | 3 | 4 |
|-------------------------|--------|-------|---------|---------|
| Size Wheel, Inches..... | 4x1 | 5x1 | 6x1 1/4 | 7x1 1/4 |
| Weight Each, Lbs..... | 7 | 7 3/4 | 11 1/2 | 14 1/4 |
| Each | \$5.75 | 6.50 | 9.50 | 11.00 |

One in a Box.

BLUE KNIGHT

With Carborundum Wheels

Blue Enamelled Iron Case, Machine Cut Gears, Steel Pinion, Adjustable Tool Rest.

These Grinders are serviceable, well made and carefully assembled and are much better than the average low priced machines.



| Nos. | A | B | C |
|-------------------------|--------|-------|-------|
| Size Wheel, Inches..... | 4x1 | 5x1 | 6x1 |
| Weight Each, Lbs..... | 4 1/4 | 6 3/4 | 9 3/4 |
| Each | \$3.50 | 4.75 | 6.50 |

One in a Box.

HANDY ANDY

With Vitrified Wheels

Durable Red Enamelled Iron Case, Helical Gears Machine Cut. Run Smooth and Quiet, Vitrified Grinding Wheels of Excellent Quality. Fast and Cool Cutting. Equipped with Standard Steel Tool Rest. Pressed Steel Crank Arm and Positive Acting Clamp Screw. The Pyroxilin Enamel Finish Adds Greatly to the Appearance of the Machine.



| Nos. | HA1 | HA2 | HA3 | HA4 |
|-------------------------|--------|-------|------|--------|
| Size Wheel, Inches..... | 4x1 | 5x1 | 6x1 | 7x1 |
| Weight Each, Lbs..... | 4 | 6 1/2 | 9 | 10 1/2 |
| Each | \$2.50 | 3.00 | 4.50 | 5.00 |

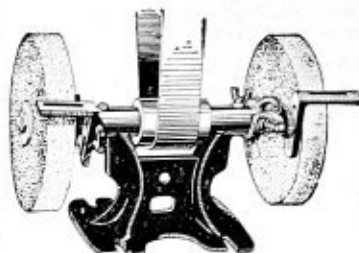
These are well made machines designed especially for light grinding and sharpening around the shop, home and garage.

One in a Box.

POWER TOOL GRINDERS

DIMO-GRIT

Iron Frame, Black Baked Enamel



Mechanical Construction—Diameter of Shaft 1/2 inch. Diameter of Arbor Hole in Wheels 1 inch. Diameter of Pulley 1 1/2 in. Width of Pulley 2 1/2 in. Length of Shaft 12 in. Distance between Wheels 8 in. Height of Shaft Above Bench 4 in. Bench Space Required 5x7 1/2 in. Recommended Speed 2546 R. P. M. Maximum Speed 3183 R. P. M.

Regular Equipment—Two Adjustable Work Rests and One Medium and One Coarse Dimo-Grit-Wheel.

No. 306—6x1 3/8 x1 in. Wheels, Weight 20 Lbs. \$8.00

One in a Box.

A very substantial grinder for light work. The bearings are plain and are bored and reamed in solid metal. The shaft is of steel, accurately machined, finished and fitted.

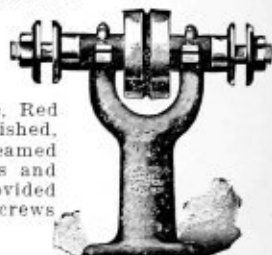
Equipped with 1 tight pulley.

GRINDING HEADS

GOODELL-PRATT

Without Wheels

Black Enamelled Iron Frame, Red Trimmings, Steel Parts Polished. Hollow Base, Spindle Holes Reamed and Counterbored, both Collars and Spindle are Lathe Turned, Provided with Adjustable Boxes, Brass Screws and Caps.



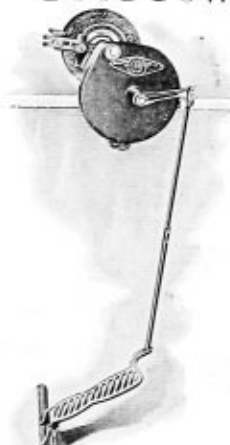
No. 25—7 in. High, 1/2 in. Spindle, 10 in. Long, with Two Sets of Flanges for Holding Wheels Up to 4 in. Diameter and 1/2 in. Thick, 2 1/4 in. Pulley for 1/4 in. Round or 3/4 in. Flat Belt, Weight Each 4 3/4 Lbs. \$4.20

One in a Box.

FOOT POWER ATTACHMENTS

For Use with Niagara Grinders

These attachments are simple and Powerful and can be used to advantage where electric or other power is not available. They are made of malleable iron and are readily adjustable to several heights.



No. 20—For Use on No. 3 Grinder \$3.00

No. 21—For Use on No. 4 Grinder 3.00

Six in a Carton.

CARBORUNDUM AND ALOXITE GRINDING WHEELS



Carborundum—Carborundum is an artificial abrasive—a manufactured material. It is a chemical combination of the two elements silicon and carbon.

To the extreme hardness of carborundum is attributed its great durability and this property combined with its sharpness makes it an ideal abrasive or sharpening material. It is a product of the electric furnace. Gray in color.

Aloxite—Aloxite is also a product of the electric furnace. It is made by fusing bauxite, a highly aluminous clay in an electric arc furnace. Cuts fast, cool and clean. Brown in color.



In Ordering Always State Whether Carborundum or Aloxite Wheel is Wanted.

STANDARD LIST OF GRINDING WHEELS

PRICES EACH

| Diam. in Inches | Thickness of Wheels, in Inches. | | | | | | | | | | | | |
|-----------------------|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 |
| 2 | \$0.80 | \$0.90 | \$1.00 | \$1.10 | \$1.20 | \$1.30 | \$1.40 | \$1.60 | \$1.80 | \$2.00 | \$2.20 | \$2.35 | \$2.55 |
| 2 1/2 | .90 | 1.05 | 1.15 | 1.25 | 1.35 | 1.45 | 1.55 | 1.80 | 2.00 | 2.25 | 2.45 | 2.70 | 2.90 |
| 3 | 1.00 | 1.15 | 1.25 | 1.40 | 1.50 | 1.65 | 1.75 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 | 3.25 |
| 3 1/2 | 1.15 | 1.30 | 1.45 | 1.60 | 1.70 | 1.85 | 1.95 | 2.25 | 2.50 | 2.80 | 3.05 | 3.35 | 3.60 |
| 4 | 1.40 | 1.50 | 1.70 | 1.85 | 2.00 | 2.20 | 2.35 | 2.70 | 3.00 | 3.35 | 3.70 | 4.10 | 4.45 |
| 4 1/2 | 1.60 | 1.75 | 2.00 | 2.20 | 2.35 | 2.60 | 2.80 | 3.20 | 3.55 | 3.95 | 4.35 | 4.80 | 5.20 |
| 5 | 1.80 | 2.00 | 2.30 | 2.50 | 2.70 | 2.95 | 3.20 | 3.65 | 4.10 | 4.55 | 5.00 | 5.45 | 5.90 |
| 6 | 2.30 | 2.60 | 2.90 | 3.20 | 3.50 | 3.80 | 4.10 | 4.70 | 5.30 | 5.90 | 6.50 | 7.10 | 7.70 |
| 7 | 2.75 | 3.15 | 3.55 | 3.90 | 4.30 | 4.75 | 5.15 | 5.85 | 6.70 | 7.50 | 8.25 | 9.00 | 9.85 |
| 8 | 3.25 | 3.75 | 4.25 | 4.75 | 5.30 | 5.75 | 6.25 | 7.25 | 8.30 | 9.30 | 10.30 | 11.30 | 12.35 |
| 9 | 3.70 | 4.35 | 5.00 | 5.60 | 6.25 | 6.80 | 7.45 | 8.70 | 10.10 | 11.40 | 12.70 | 14.00 | 15.25 |
| 10 | 4.30 | 5.15 | 5.90 | 6.70 | 7.45 | 8.20 | 9.00 | 10.50 | 12.25 | 14.00 | 15.75 | 17.50 | 19.25 |
| 12 | 5.50 | 6.20 | 7.25 | 8.25 | 9.35 | 10.40 | 11.50 | 13.75 | 15.75 | 17.85 | 20.00 | 22.35 | 24.75 |
| 14 | ..... | ..... | 9.30 | 10.80 | 12.30 | 13.80 | 15.25 | 18.25 | 21.20 | 24.20 | 27.15 | 30.35 | 33.60 |
| 16 | ..... | ..... | ..... | ..... | 15.75 | 17.75 | 19.75 | 23.75 | 27.70 | 31.70 | 35.70 | 39.60 | 43.55 |
| 18 | ..... | ..... | ..... | ..... | ..... | ..... | 24.45 | 29.40 | 34.50 | 39.50 | 44.50 | 49.20 | 53.90 |
| 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 36.10 | 42.00 | 47.85 | 53.75 | 59.40 | 65.00 |
| 22 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 44.45 | 51.60 | 58.75 | 65.90 | 73.00 | 80.00 |
| 24 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 53.00 | 61.00 | 70.00 | 78.00 | 87.00 | 95.00 |

State Grade and Grain When Ordering.

Always Give Diameter and Thickness of Wheels Wanted, Also the Size of Arbor Hole and State Principle Purpose for which the Wheel is to be Used.

EMERY WHEEL DRESSERS

HUNTINGTON PATTERN



Hooded.

Japanned Iron Handle, Complete with Two Sets of Cutters.

Each

No. 1H—12 in. Long, with 1 1/2 in. Diameter Cutters.
Weight Each 1 1/2 Lbs. \$0.75

One in a Box.

EXTRA CUTTERS FOR EMERY WHEEL DRESSERS

Hardened Steel, Polished.

Per Set

No. 1C—Cutters, 5 Wheel Sections,
Weight Per 100 Sets 7 1/2 Lbs. \$0.10

Open Stock.



DIAMO-CARBO



A Tube Filled Its Entire Length with an Abrasive Almost as Hard as Diamonds.

Used as a diamond or in connection with a diamond, materially reducing the cost of the latter. The adjustable collar forms a back-stop over the tool rest.

| | | | | |
|------------------------|--------|------|------|------|
| Nos. | 3 | 5 | 9 | 12 |
| Length, Inches | 10 | 12 | 12 | 12 |
| Diameter, Inches | 5/8 | 5/8 | 3/4 | 1/2 |
| Each | \$3.50 | 4.00 | 4.00 | 4.00 |

Nos. 3 and 5 are the sizes best adapted for general use. Nos. 9 and 12 are used for small wheels.

One in a Box.

MOUNTED GRINDSTONES



SAMSON

Roller Bearing

Painted Seasoned Hardwood Frame, Strongly Braced and Bolted. Berea or Lake Huron Stone, Complete with Treadle, Crank and Bucket Holder, Crank will Tighten Any Nut on Frame.

| | | | |
|-------------------------------------|---------|----------------|----------------|
| Nos. | \$150 | \$155 | \$160 |
| Weight Stone, Lbs., 100 to 110 | | 70 to 80 | 40 to 50 |
| Thickness Stone, In. 1 3/4 to 2 1/4 | | 1 3/4 to 2 1/4 | 1 3/4 to 2 1/4 |
| Shipping Wt., Lbs. | 150 | 100 | 75 |
| Each | \$16.50 | 15.00 | 14.00 |

Bushes Stones Only, for Samson Frame

| | | | |
|------------|--------|--------|--------|
| Nos. | \$1508 | \$1558 | \$1608 |
| Each | \$9.25 | 8.50 | 8.00 |

BI-TREADLE

Ball Bearing

Steel Frame, Braced and Riveted, Coated with Black Waterproof Paint.

The power applied with the legs by means of duplex treadle, is nearly double that obtained with a crank, enabling the operator to run the stone at much higher speed and perform much better work.



Each

| | |
|---|---------|
| No. B110—19 to 22 in. Diameter, Genuine Berea or Lake Huron Stone, 1 3/4 to 2 1/4 in. Thick, Weight 50 to 60 Lbs., with Steel Seat, Clothes Protector and Drip Can, Weight Each Complete in Crate 100 Lbs. | \$16.00 |
|---|---------|

Bushes Stones Only, for Bi-Treadle Frames

| | |
|---|--------|
| 50 to 60 Lbs., 1 3/4 to 2 1/4 in. Thick. | \$8.00 |
|---|--------|

FAMILY GRINDSTONES

Improved Ball Bearings

Selected Berea Grit Stone, Turned and Rubbed True, Mounted in an extra heavy Iron Trough, Pressed Steel Base, Fitted with Patent Hub, Steel Shaft and Ball Bearings.

| | | |
|---------------------|--------|------|
| Size, Inches. | 6 | 8 |
| Wt. Each, Lbs. | 10 | 12 |
| Each | \$4.00 | 4.50 |
| Size, Inches. | 10 | 12 |
| Wt. Each, Lbs. | 22 | 34 |
| Each | \$5.25 | 6.00 |



GRINDSTONE FIXTURES

COMMON



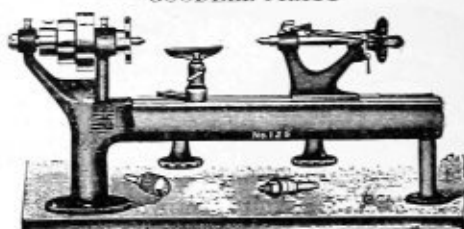
Cast Iron, Japanned

Double Wheel, Anti-friction Covered Bearings, two Iron Flanges, Adjustable Nut.

| | |
|-------------------------------|-------------|
| Length of Shaft, Inches. | 13 |
| Weight Per Set, Lbs. | 5 |
| Per Dozen Sets. | \$20.00 |
| Extra Cranks | Dozen, 4.00 |
| Extra Shafts | Dozen, 9.00 |

AMATEUR BENCH LATHES

GOODELL-PRATT



For Laboratories, Repair Shops and Trade Schools

Black and Red Enamel Finish, Polished Working Parts. This Lathe has a Milled Bed and a Tail Stock with a milled base. The Live Spindle has a cone bearing to take up wear, and is provided with a No. 1 Morse Taper Socket and has a 3/8 inch hole clear through. The Tail Stock has both Screw and Lever Feed. Tail Stock Spindle has a No. 0 Morse Taper Socket. The Cone Pulley has three Steps, 1 1/2, 2 1/2 and 3 1/2 in. diameter.

Every Lathe is provided with an adjustable Tee Rest, a Slotted Face Plate, a Saw Arbor and a Drill Chuck with a No. 1 Morse Taper Shank. The Chuck holds round shanks of all sizes from 0 to 1 1/4 in. Both the Head Stock and the Tail Stock are provided with Point Centers. Each

| | |
|--|---------|
| No. 125—Length Over All 25 in., Height 11 1/2 in., Swing 7 in., Extreme Distance Between Centers 12 in., Net Weight 30 Lbs. | \$40.00 |
| No. 494—Length Over All 31 in., Height 11 1/2 in., Swing 7 in., Extreme Distance Between Centers 18 in., Net Weight 36 Lbs. | 44.00 |

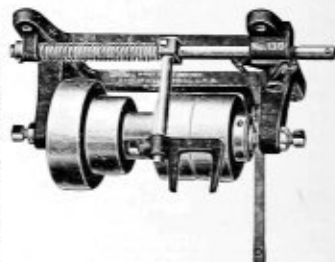
The No. 492 Lathe is furnished with extra large Tool Rest.

COUNTERSHAFTS

GOODELL-PRATT

For Use with Amateur Bench Lathes

This Countershaft for use with our Bench Lathes is so arranged that a treadle can be attached to the pull. The belt is held on the Tight Pulley as long as pressure remains on the treadle. Diameter of tight and loose pulleys, 2 3/4 in. cone pulley has three steps, 1 1/2, 2 1/2 and 3 1/2 in. in diam., 1 1/4 in. in width.

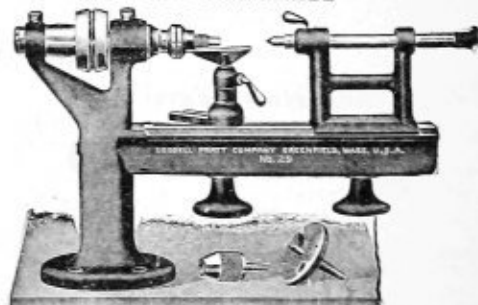


Each

| | |
|----------------------------------|---------|
| No. 130—Weight Each 10 Lbs. | \$12.00 |
|----------------------------------|---------|

POLISHING LATHES

GOODELL-PRATT



For Polishing, Grinding and Similar Operations

All iron parts except bearing surfaces are finished in red and black enamel; steel parts are polished.

Furnished complete with Tail Stock, Tee Rest, Face Plate, Saw Arbor and a Three-Jawed Chuck; capacity 0 to 1/2 in. The Bed is milled its entire length. The Head Stock has a hollow spindle, Length of Bed 12 in. Extreme distance between centers, 3 1/2 in. Swing 5 in. Width of Pulleys 3/4 in. Diameter of Steps, 1 in. and 1 1/2 in. The large step is grooved so that round belt may be used if desired. Net weight 9 1/2 pounds. Each

| | |
|------------------------------------|---------|
| No. 29—Weight Each 9 1/2 Lbs. | \$12.00 |
|------------------------------------|---------|

POLISHING HEADS

GOODELL-PRATT

For Round or Flat Belt



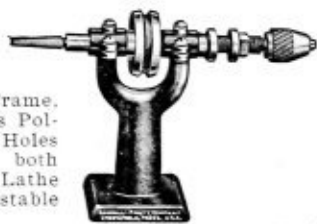
Black Enamel Iron Frame with Red Trimmings, Steel Parts Polished, Hollow Base, Spindle Holes Reamed and Counterbored. Both Collars and Spindles are Lathe Turned. Provided with Adjustable Boxes.

Each

No. 21—7 in. High, $\frac{3}{8}$ in. Spindle, 8 in. Long, Taper Threaded at Each End with Flange for Holding Wheel $\frac{3}{4}$ in. Thick, $1\frac{1}{8}$ in. Diameter Pulley Takes $\frac{1}{4}$ in. Round or $\frac{3}{4}$ in. Flat Belt, Weight Each $2\frac{1}{2}$ Lbs. \$2.70

No. 23—With 3 Jaw Chuck, Holding Drills to $\frac{1}{2}$ in. on One End of Spindle, Otherwise Same as No. 21, Weight Each $2\frac{3}{4}$ Lbs. 3.20
One in a Box.

With Drill Chuck



Black Enameled Iron Frame, Trimmed in Red, Steel Parts Polished, Hollow Base, Spindle Holes Reamed and Counterbored, both Collars and Spindles are Lathe Turned. Provided with Adjustable Boxes.

Each

No. 24—7 in. High, $\frac{1}{2}$ in. Spindle, 10 in. Long, Taper Threaded at One End, and a Three-Jawed Chuck. Capacity 0 to $\frac{1}{4}$ in. on the Other, It Also has Flanges for Holding a Wheel $\frac{3}{4}$ in. Thick, $2\frac{1}{4}$ in. Diameter Pulley Will Take $\frac{1}{4}$ in. Round or $\frac{3}{4}$ in. Flat Belt, Weight Each $4\frac{1}{4}$ Lbs. \$4.50
No. 22—Without Drill Chuck, Otherwise Same as No. 24, Weight Each $4\frac{1}{2}$ Lbs. 3.60

With Drill Chuck



Black Enamel Iron Frame with Red Trimmings, Steel Parts Polished.

Each

No. 27—7 in. High, 9 in. Steel Spindle with Taper Thread on One End and Flanges on the Other, Diameter of Spindle in the Bearing $\frac{3}{4}$ in. Between Flanges where Wheel Runs $\frac{1}{2}$ in. Patent Oil Cups. Takes $10 \times \frac{3}{4}$ in. Wheels, Pulley $1\frac{3}{8}$ in. Wide, Complete with Three-Jawed Chuck, Capacity 0 to $\frac{1}{4}$ in., Weight Each 12 Lbs. \$8.00
One in a Box.

With Drill Chuck



Black Enameled Iron Frame with Red Trimmings, Steel Parts Polished. This machine has adjustable boxes and patent oil cups. It has two flanges for holding wheels up to 8 in. diameter and 1 in. face. For use with flat belt.

Each

No. 43—8 in. High, $\frac{3}{4}$ in. Spindle, 14 in. Long, Provided with a Taper Screw on One End and Three-Jaw Chuck 0 to $\frac{3}{8}$ in. on the Other, Pulley 2 in. Diameter, $1\frac{1}{2}$ in. Flat Face, Weight Each 19 Lbs. \$15.50
One in a Box.

BUFFING WHEELS

LOOSE MUSLIN UNBLEACHED

Grade M



This grade is used for general work for both cutting and coloring. It is strong in body, yet flexible enough to get around the work easily. Only goods having large yarns of strong construction are used in this grade which decreases the space between the yarns and insures maximum wearing qualities. Eighteen ply, count 64x68, Weight 3.75 pounds.

| Size, Inches | 4 | 6 | 8 | 10 | 12 |
|--------------|--------|------|------|------|------|
| Each | \$0.55 | 1.10 | 2.00 | 4.00 | 7.00 |

Open Stock.

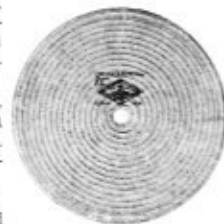
STITCHED MUSLIN BLEACHED

Grade S. B.

A sewed buff of extra good quality, carefully built by the strip construction of strong heavy cotton cloth; is uniform in density, and is well balanced.

This material is carefully selected, uniformly graded, and the strips in alternate layers cross at right angles. Eighteen ply, regular standard sewing.

Furnished $\frac{1}{4}$ in. stitched with cone $\frac{1}{4}$ in. apart or $\frac{3}{8}$ in. stitched with $\frac{3}{8}$ in. When ordering state which is wanted.



| Size, Inches | 8 | 10 | 12 |
|--------------------|-------------------------|----|----|
| Per Lb., All Sizes | Prices Upon Application | | |

Open Stock.

FINE WIRE WHEEL BRUSHES

WIRE DRAWN

High Quality Steel Wire, Especially Tempered



These Brushes are used by Nickel and Electro Platers, Manufacturers of Art Metal Goods, Gas and Electric Fixtures, Band Instruments, Builders' Hardware and Saddlery Goods, Finishers of All Kinds of Metal.

The wire used in these Brushes is securely drawn into the hub in individual knots and is held in by Brass Wire. It is of a high quality and is drawn particularly for use in

these Brushes, with a temper especially adapted to this class of work.

| Nos. | 2301E | 2304H | 2353 H |
|---------------------------|----------------|-------|----------------|
| Diameter, Inches | 3 | 3 | $3\frac{1}{2}$ |
| Thickness of Wire, Inches | .003 | .004 | .004 |
| Number of Rows | 3 | 4 | 3 |
| Diameter of Block, Inches | 1 | 1 | $1\frac{1}{4}$ |
| Weight Per Dozen, Lbs. | $3\frac{1}{2}$ | 4 | 3 |
| Per Dozen | \$18.00 | 18.00 | 18.00 |

| Nos. | 2404H | 2504H | 2604 H |
|---------------------------|----------------|-------|----------------|
| Diameter, Inches | 4 | 5 | 6 |
| Thickness of Wire, Inches | .004 | .004 | .004 |
| Number of Rows | 4 | 4 | 4 |
| Diameter of Block, Inches | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ |
| Weight Per Dozen, Lbs. | 5 | 9 | 15 |
| Per Dozen | \$24.00 | 30.00 | 48.00 |

DRILL CHUCKS

ETTCO BALL BEARING



Keyless, Hand Operated, Easy Release

Made of few parts. No springs or other small parts to be broken. No slipping of drill and no ruined drill shanks. The steel ball bearings are held in a retainer and cannot drop out when the chuck is taken apart. No keys necessary for adjusting, as the grip of the hand will tighten the chuck without any extra effort. The Etcco is the most practical and easiest working drill chuck on the market.

| Nos. | 1A | 2A | 3A | 3½ |
|----------------------------|---------|---------|---------|--------|
| Capacity, Inches..... | 0 to 1½ | 0 to 2½ | 0 to 3½ | ¾ to 5 |
| Outside Diameter, Inches.. | 1 ¼ | 1 ½ | 2 ¼ | 2 ½ |
| Length Open, Inches..... | 1 ¾ | 2 ½ | 3 ¼ | 3 ¼ |
| Length Closed, Inches..... | 2 ½ | 3 ¾ | 4 ¾ | 4 ¾ |
| Weight Each, Lbs..... | ½ | 1 ¼ | 2 ½ | 2 ½ |
| Each | \$5.50 | 6.50 | 9.00 | 11.00 |

One in a Box.

EXTRA ARBORS FOR ETTCO CHUCKS

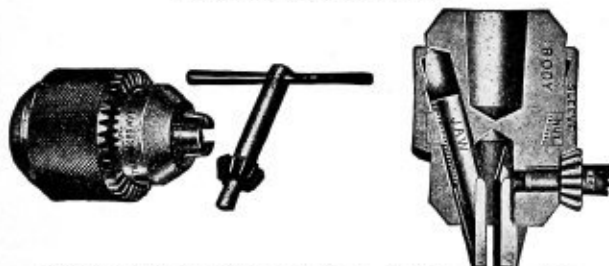
With Morse Taper Shanks

| Nos. | E1A | E2A | E3A | E3½A |
|-------------------|--------|-----|------|------|
| Morse Taper Nos.. | 1 | 2 | 3 | 4 |
| Each | \$0.75 | .75 | 1.00 | 1.50 |

With Round Shanks

| Nos. | E1S | E2S |
|-----------------------------|--------|------|
| Diameter Shank, Inches..... | ½ | ¾ |
| Each | \$1.00 | 1.00 |

JACOBS GEARED SLEEVE



Best Tool Steel Body and Parts, Polished, with Key

Direct Power, Bushed Keyholes. Unbreakable Tool Steel Keys, increased Tightening Power—Gear Teeth on Split Nut.

| Nos. | 1 | 2 | 3 | 4 | 5 |
|--------------------------|--------|------|------|-------|-------|
| Capacity, Inches..... | 0-1½ | 0-2½ | 0-3½ | 1½-4 | ¾-1 |
| Outside Diameter, In.. | 1 ¾ | 1 ½ | 2 ¾ | 2 ¾ | 3 ¾ |
| Lgth., Jaws Extd., In.. | 1 ¾ | 2 ¾ | 3 ¾ | 4 ¾ | 5 ¾ |
| Lgth., Jaws Receded, In. | 1 ½ | 2 ½ | 3 | 3 ½ | 4 ½ |
| Wt. Ea. Less Key, Lbs. | ¾ | ¾ | 2 ¼ | 4 ¼ | 6 ¾ |
| Each | \$4.50 | 5.50 | 9.00 | 15.00 | 20.00 |

One in a Box.

WESTCOTT

Polished Tool Steel Body, with Key

Straight Body, no projections. The Jaws and Screws are all within the body and are of the best Tool Steel, carefully hardened.

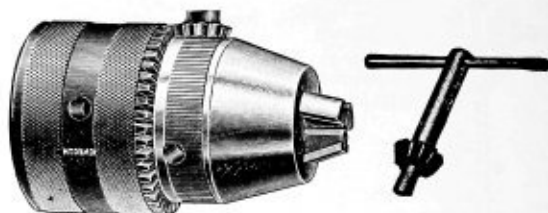


| Nos. | 00LS | 0LS | 1LS | 2LS |
|----------------------|--------|--------|--------|--------|
| Diameter, Inches.... | 1 ½ | 2 ½ | 3 | 3 ½ |
| Capacity, Inches.... | 0 to ¼ | 0 to ½ | 0 to ¾ | 0 to 1 |
| Each | \$8.00 | 9.00 | 10.00 | 11.00 |

One in a Box.

DRILL CHUCKS

STETSON GEARED



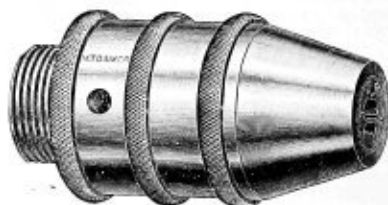
Polished Tool Steel Body, with Key

The Toothing Sleeve and Key distinguishes it from and makes it superior to all others. By means of this key, a drill, tap or other tool can be easily and securely tightened, but as the action of the key differs from that of the ordinary spanner, in that it is not inclined to revolve the spindle, this chuck is far more convenient and effective than others, which require the use of one for tightening and the other for holding the spindle.

No. 281—Capacity 0 to ¾ in., Weight Each 1 Lb. . . \$8.50

One in a Box.

BEACH PATENT



No. 275—Hand Operated

Polished Tool Steel Body, Hardened Jaws.

| Sizes | 1 | 2 | 3 | 4 |
|----------------------|--------|--------|---------|---------|
| Capacity, Inches.... | 0 to ¼ | 0 to ¾ | 1½ to ½ | 1½ to ¾ |
| Weight Each, Lbs.. | ¾ | 1 ¼ | 2 ¾ | 4 ¾ |
| Each | \$8.00 | 8.50 | 10.00 | 11.00 |

One in a Box.

BEACH JEWELERS



Polished Tool Steel Body.

This is a Light Weight Chuck intended for Jewelers and other light precision machines.

No. 275-O—Capacity 0 to ¼ in., Weight Each ¼ Lb. . . \$8.00

EXTRA JAWS FOR BEACH CHUCKS



When ordering Jaws to fit old chucks always send Chuck so that jaws can be fitted to it.

| | Per Set |
|-----------------------------|---------|
| No. 276 —Not Hardened | \$0.90 |
| No. 276H —Hardened | 2.10 |

DRILL CHUCKS**MILLERS FALLS STRAIGHT SHANK****Steel Shell, Knurled and Polished**

Three Steel Jaws arranged to open and close with the loosening or closing of the chuck upon the spindle.

| | | | |
|--------------------------|---------------|---------------|---------------|
| Nos. | 5 | 6 | 7 |
| Capacity, Inches | 0 to 1/4 | 0 to 3/8 | 0 to 1/2 |
| Shanks, Inches | 2 1/2 x 1 1/2 | 2 1/2 x 1 1/2 | 2 1/2 x 1 1/2 |
| Outside Diameter, Inches | 1 | 1 1/4 | 1 1/2 |
| Weight Each, Oz. | 7 | 10 | 17 |
| Each | \$1.70 | 2.05 | 2.80 |

One in a Box.

MILLERS FALLS BRACE SHANK**Steel Shell, Knurled and Polished**

Three Steel Jaws arranged to open and close with the loosening or closing of the chuck upon the spindle.

| | | | |
|--------------------------|----------|----------|----------|
| Nos. | 15 | 16 | 17 |
| Capacity, Inches | 0 to 1/4 | 0 to 3/8 | 0 to 1/2 |
| Length Shank, Inches | 2 | 2 1/4 | 2 1/4 |
| Outside Diameter, Inches | 1 | 1 1/4 | 1 1/2 |
| Weight Each, Oz. | 6 | 10 | 17 |
| Each | \$1.70 | 2.15 | 2.80 |

One in a Box.

MILLERS FALLS TAPER SHANK**Steel Shell, Knurled and Polished.**

Three Steel Jaws arranged to open and close with the loosening or closing of the chuck upon the spindle.

| | | | |
|-----------------------|----------|----------|----------|
| Nos. | 1T5 | 2T5 | 1T6 |
| Capacity, Inches | 0 to 1/4 | 0 to 1/4 | 0 to 3/8 |
| Morse Taper Shank No. | 1 | 2 | 1 |
| Each | \$2.25 | 2.35 | 2.60 |
| Nos. | 2T6 | 3T6 | 1T7 |
| Capacity, Inches | 0 to 3/8 | 0 to 3/8 | 0 to 1/2 |
| Morse Taper Shank No. | 2 | 3 | 1 |
| Each | \$2.75 | 3.30 | 3.40 |
| Nos. | 2T7 | 3T7 | 4T7 |
| Capacity, Inches | 0 to 1/2 | 0 to 1/2 | 0 to 1/2 |
| Morse Taper Shank No. | 2 | 3 | 4 |
| Each | \$3.55 | 4.10 | 4.95 |

One in a Box.

YANKEE STRAIGHT SHANK**Steel Body, Knurled and Nickel Plated**

Three Hardened Tool Steel Jaws, 1/2 in. Diameter Round Steel Shank.

| | | | |
|--------------------------|----------|----------|----------|
| Nos. | 1593 | 1594 | 1595 |
| Capacity, Inches | 0 to 1/4 | 0 to 3/8 | 0 to 1/2 |
| Outside Diameter, Inches | 1 | 1 1/4 | 1 1/2 |
| Length, Inches | 4 3/4 | 5 | 5 3/4 |
| Weight Each, Oz. | 8 | 12 | 18 |
| Each | \$2.00 | 2.30 | 3.00 |

One in a Box.

DRILL CHUCK ARBORS**JACOBS TAPER SHANK**

Accurately Ground on Centers, to Fit Any Model of Jacobs' Drill Chucks

| | | | | | |
|-------------------|--------|-----|------|------|------|
| Morse Taper, Nos. | 1 | 2 | 3 | 4 | 5 |
| Each | \$0.80 | .80 | 1.20 | 2.00 | 2.50 |

Note—When ordering Arbors always give Taper Number also Number of Chuck for which Arbor is Required.

JACOBS STRAIGHT SHANK

Accurately Ground on Centers to fit Any Model of Jacobs' Drill Chucks

| | | |
|--------------------|--------|-----|
| Size Shank, Inches | 1/2 | 3/4 |
| Each | \$0.75 | .75 |

Note—When ordering Straight Shank Arbors always state Size of Shank also Number of Chuck for which Arbor is Required.

MORSE TAPER SHANK**For Beach and Stetson Drill Chucks**

Polished Steel with Nut. By turning nut one way chuck may be forced off the arbor and by turning it the other way may be drawn out of socket.

| | |
|---|-------------|
| No. 0—For No. 0 Beach Chuck, No. 1 M. T. Shank, 3 3/8 in. Long. | Each \$1.30 |
| No. 1—For No. 1 Beach Chuck, No. 1 M. T. Shank, 4 1/2 in. Long. | 1.30 |
| No. 1A—For No. 1 Beach Chuck, No. 2 M. T. Shank, 5 1/8 in. Long. | 1.40 |
| No. 2—For No. 2 Beach, No. 2 Stetson and No. 2 Stetson Geared Chucks, No. 2 M. T. Shank, 5 1/8 in. Long. | 1.40 |
| No. 2A—For No. 2 Beach, No. 2 Stetson and No. 2 Stetson Geared Chucks, No. 3 M. T. Shank, 5 1/8 in. Long. | 1.75 |
| No. 3—For Nos. 3 and 4 Beach Chuck, No. 3 M. T. Shank, 6 1/4 in. Long. | 1.75 |
| No. 3A—For Nos. 3 and 4 Beach Chuck, No. 4 M. T. Shank, 7 1/4 in. Long. | 2.25 |
| No. 4—For Nos. 3 and 4 Stetson Chuck, No. 3 M. T. Shank, 6 1/4 in. Long. | 2.00 |
| No. 4A—For No. 3 and 4 Stetson, No. 4 M. T. Shank, 7 1/4 in. Long. | 2.50 |

MORSE STRAIGHT SHANK**With Blank End, for Lathe Spindle**

| | |
|---|-------------|
| No. 0—For No. 0 Beach Chuck, 4 3/4 in. Long, Shank 3 3/8 x 1 1/2 in. | Each \$1.05 |
| No. 1—For No. 1 Beach Chuck, 6 1/2 in. Long, Shank 4 1/2 x 1 1/2 in. | 1.15 |
| No. 2—For No. 2 Beach, No. 2 Stetson or No. 2 Stetson Geared Chuck, 6 1/2 in. Long, Shank 4 1/2 x 7/8 in. | 1.15 |
| No. 3—For Nos. 3 and 4 Beach Chuck, 6 1/2 in. Long, Shank 4 1/2 x 1 in. | 1.45 |
| No. 4—For Nos. 3 and 4 Stetson Chuck, 7 1/2 in. Long, Shank 4 3/8 x 1 1/4 in. | 2.00 |

MACHINISTS VISES

PARKER SUPERIOR



Stationary Base

Renewable Special Tool Steel Faces, Milled and Fitted to the Jaws.

| Nos. | 29X | 39X | 49X | 59X |
|-----------------------|---------|-------|-------|-------|
| Width Jaws, Inches... | 3 1/4 | 3 3/4 | 4 1/4 | 4 3/4 |
| Jaws Open, Inches... | 4 | 6 | 7 | 8 |
| Weight Each, Lbs... | 33 1/2 | 52 | 72 | 90 |
| Each | \$11.50 | 13.00 | 17.00 | 22.00 |

| Nos. | 69X | 79X | 79 1/2 X |
|-----------------------|---------|-------|----------|
| Width Jaws, Inches... | 5 1/2 | 6 3/4 | 7 |
| Jaws Open, Inches... | 9 | 9 1/2 | 10 1/2 |
| Weight Each, Lbs... | 129 | 159 | 193 1/2 |
| Each | \$33.00 | 45.00 | 55.00 |

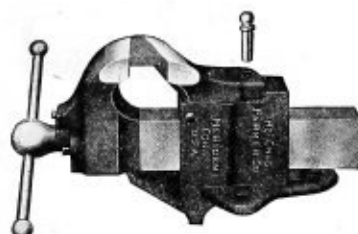


Swivel Base with Patent Tightening Stud

Renewable Special Tool Steel Faces, Milled and Fitted to the Jaws.

| Nos. | 229X | 239X | 249X | 259X |
|-----------------------|---------|--------|--------|---------|
| Width Jaws, Inches... | 3 1/4 | 3 3/4 | 4 1/4 | 4 3/4 |
| Jaws Open, Inches... | 4 | 6 | 7 | 8 |
| Weight Each, Lbs... | 39 | 60 1/2 | 84 1/2 | 102 1/2 |
| Each | \$15.00 | 17.00 | 21.00 | 27.50 |

| Nos. | 269X | 279X | 279 1/2 X |
|-----------------------|---------|-------|-----------|
| Width Jaws, Inches... | 5 1/2 | 6 3/4 | 7 |
| Jaws Open, Inches... | 9 | 9 1/2 | 10 1/2 |
| Weight Each, Lbs... | 151 | 187 | 228 |
| Each | \$42.00 | 60.00 | 70.00 |



Stationary Base, Swivel Jaw

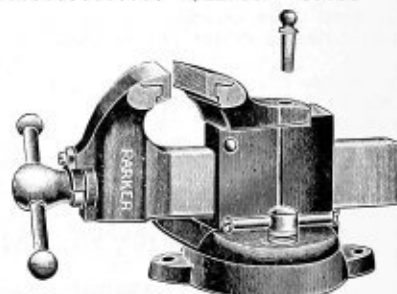
Parkco Metal, Solid Steel Bar, Reinforced Slide, Set Screw and Spring Tension on Lever, Renewable Tempered Tool Steel Faces.

| Nos. | 370 | 371 | 371 1/2 | 372 |
|-----------------------|---------|-------|---------|-------|
| Width Jaws, Inches... | 3 | 3 1/2 | 4 | 4 1/2 |
| Jaws Open, Inches... | 3 1/2 | 5 | 5 | 6 |
| Weight Each, Lbs... | 25 | 40 | 41 | 59 |
| Each | \$15.00 | 16.00 | 19.00 | 22.00 |

| Nos. | 373 | 374 | 375 |
|-----------------------|---------|-------|-------|
| Width Jaws, Inches... | 5 | 5 1/2 | 6 |
| Jaws Open, Inches... | 7 | 9 | 9 1/2 |
| Weight Each, Lbs... | 73 | 99 | 149 |
| Each | \$28.00 | 35.00 | 50.00 |

PARKER VICTOR

These Vises include all the features of the Superior Line and in addition are equipped with Self-adjusting Back Jaws, which can be adjusted for holding irregular work.



Swivel Base and Swivel Jaw

Parkco Metal, Solid Steel Bar, Reinforced Slide, Set Screw and Spring Tension on Lever, Positive Locking Device, Renewable Tempered Tool Steel Faces.

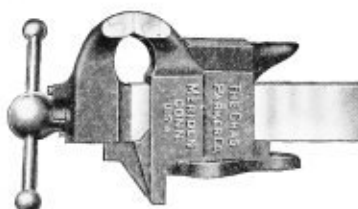
| Nos. | 270 | 271 | 271 1/2 | 272 |
|-----------------------|---------|-------|---------|-------|
| Width Jaws, Inches... | 3 | 3 1/2 | 4 | 4 1/2 |
| Jaws Open, Inches... | 3 1/2 | 5 | 5 | 6 |
| Weight Each, Lbs... | 33 | 51 | 52 | 71 |
| Each | \$17.50 | 20.00 | 24.00 | 28.00 |

| Nos. | 273 | 274 | 275 |
|-----------------------|---------|-------|-------|
| Width Jaws, Inches... | 5 | 5 1/2 | 6 |
| Jaws Open, Inches... | 7 | 9 | 9 1/2 |
| Weight Each, Lbs... | 85 | 123 | 174 |
| Each | \$35.00 | 44.00 | 60.00 |

PARKER SERVICE STATION

Designed and constructed as a special Vise for the Garage and Service Station. It includes an Anvil which is a great advantage.

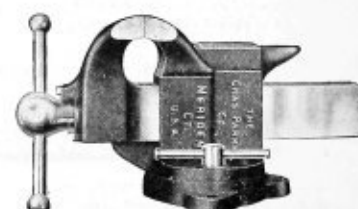
It is also well adapted for Shops or Industrial Plants.



Stationary Base

Parkco Metal, Solid Steel Bar, Reinforced Slide, Set Screw and Spring Tension on Lever, Renewable Tempered Steel Jaws.

| Nos. | 134 | 135 |
|-----------------------|---------|-------|
| Width Jaws, Inches... | 4 | 5 |
| Jaws Open, Inches... | 5 1/2 | 6 |
| Weight Each, Lbs... | 76 | 102 |
| Each | \$17.50 | 24.00 |



Swivel Base

Parkco Metal, Solid Steel Bar, Reinforced Slide, Set Screw and Spring Tension on Lever, Renewable Tempered Steel Jaws.

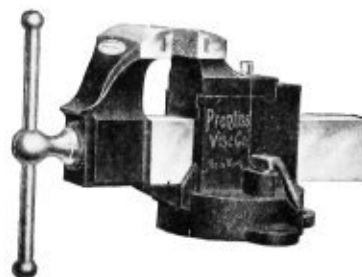
| Nos. | 234 | 235 |
|-----------------------|---------|-------|
| Width Jaws, Inches... | 4 | 5 |
| Jaws Open, Inches... | 5 1/2 | 6 |
| Weight Each, Lbs... | 80 | 104 |
| Each | \$21.50 | 32.00 |

MACHINISTS VISES



PRENTISS

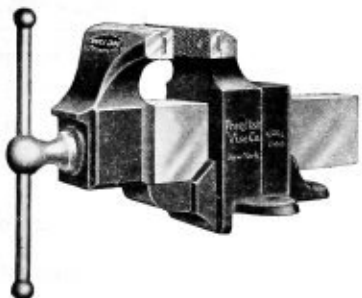
The Main Body of all Prentiss Vises are made from a mixture of gray iron and steel. All parts fit accurately and work smoothly. They are absolutely guaranteed against defects in workmanship or material.



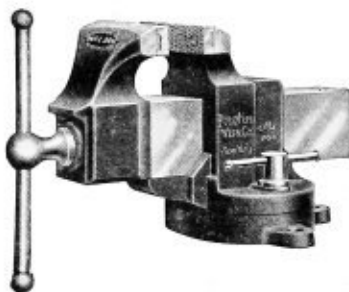
| Stationary Base Self Adjusting Jaw, Detachable Steel Faces | | | | |
|---|---------|-------|-------|-------|
| Nos. | 1 | 2 | 2½ | 3 |
| Width Jaws, Inches. | 2 5/8 | 3 1/2 | 4 | 4 1/2 |
| Jaws Open, Inches. | 3 1/2 | 4 3/4 | 5 1/4 | 6 |
| Weight Each, Lbs. | 13 1/2 | 28 | 41 | 54 |
| Each | \$13.50 | 16.00 | 19.00 | 22.00 |
| Nos. | 4 | 5 | 6 | |
| Width Jaws, Inches. | 5 1/4 | 6 | 7 | |
| Jaws Open, Inches. | 8 | 9 | 10 | |
| Weight Each, Lbs. | 96 | 146 | 184 | |
| Each | \$35.00 | 50.00 | 65.00 | |

| Patent Swivel Base Self Adjusting Jaw, Detachable Steel Faces | | | | |
|--|---------|-------|-------|-------|
| Nos. | 18 | 19 | 19½ | 20 |
| Width Jaws, Inches. | 2 5/8 | 3 1/2 | 4 | 4 1/2 |
| Jaws Open, Inches. | 3 1/2 | 4 3/4 | 5 1/4 | 6 |
| Weight Each, Lbs. | 17 | 32 | 46 | 65 |
| Each | \$16.00 | 20.00 | 24.00 | 28.00 |
| Nos. | 21 | 22 | 23 | |
| Width Jaws, Inches. | 5 1/4 | 6 | 7 | |
| Jaws Open, Inches. | 8 | 9 | 11 | |
| Weight Each, Lbs. | 109 | 168 | 207 | |
| Each | \$44.00 | 60.00 | 75.00 | |

BULL DOG



These Vises are designed to provide greatest available strength and maximum convenience to the user. Great care is taken to insure accurate fitting and interchangeability.



| Stationary Bottom Solid Jaw Parallel, Detachable Steel Faces | | | | |
|---|---------|-------|-------|-------|
| Nos. | 50 | 51 | 52 | 53 |
| Width of Jaws, Inches. | 3 1/4 | 3 5/8 | 4 1/8 | 4 5/8 |
| Jaws Open, Inches. | 4 | 5 1/2 | 6 | 7 |
| Weight Each, Lbs. | 22 | 28 | 42 | 52 |
| Each | \$10.00 | 11.25 | 12.75 | 15.50 |
| Nos. | 54 | 55 | 56 | 57 |
| Width of Jaws, Inches. | 5 | 5 1/2 | 6 | 7 |
| Jaws Open, Inches. | 8 | 9 | 10 | 12 |
| Weight Each, Lbs. | 72 | 100 | 135 | 210 |
| Each | \$20.00 | 30.00 | 39.00 | 55.00 |

| Swivel Bottom Solid Jaw Parallel, Detachable Steel Faces | | | | |
|---|---------|-------|-------|-------|
| Nos. | 90 | 91 | 92 | 93 |
| Width of Jaws, Inches. | 3 1/4 | 3 5/8 | 4 1/8 | 4 5/8 |
| Jaws Open, Inches. | 4 | 5 1/2 | 6 | 7 |
| Weight Each, Lbs. | 28 | 36 | 52 | 64 |
| Each | \$13.00 | 15.00 | 17.00 | 20.00 |
| Nos. | 94 | 95 | 96 | 97 |
| Width of Jaws, Inches. | 5 | 5 1/2 | 6 | 7 |
| Jaws Open, Inches. | 8 | 9 | 10 | 12 |
| Weight Each, Lbs. | 85 | 115 | 155 | 235 |
| Each | \$30.00 | 38.00 | 52.00 | 70.00 |

PARKER'S SUPERIOR DOUBLE SWIVEL

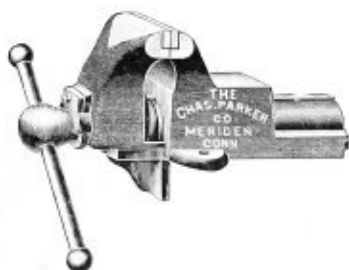


Parkco Metal, Solid Steel Slide Bar, Reinforced Slide, Set Screw and Spring Tension on Lever, Renewable Tempered Tool Steel Faces.

| | | | |
|---------------------|---------|-------|-------|
| Nos. | 429 | 439 | 449 |
| Width Jaws, Inches. | 3 1/2 | 4 | 4 1/2 |
| Jaws Open, Inches. | 3 1/2 | 6 | 7 1/2 |
| Weight Each, Lbs. | 47 | 67 | 87 |
| Each | \$27.00 | 32.00 | 39.00 |

In this Vise the Swivels work independently of each other allowing the work to be placed in any position without removing the work from the jaws.

PARKER'S OVAL SLIDE



High Grade Steel Faced Jaws Top Ridge of Slide Fits into a Groove in Back Jaw Preventing Side Play when Slide is Extended.

| | | | | | |
|-------------------|--------|-------|--------|--------|-------|
| Nos. | 030 | 30 | 31 | 32 | 34 |
| Width Jaws, In. | 2 | 2 1/2 | 3 | 3 1/2 | 4 |
| Jaws Open, In. | 2 3/4 | 3 | 3 1/2 | 4 | 4 1/4 |
| Weight Each, Lbs. | 7 1/2 | 8 | 13 1/2 | 19 1/2 | 29 |
| Each | \$2.90 | 3.40 | 4.00 | 5.00 | 7.00 |

VICES

SHEPARD MECHANICS



Stationary or Swivel Bottom

These vises can be used either stationary or as a swivel bottom. Each vise is equipped with central bolt. Nut and washer for fastening to bench. Also provided with bolt holes for permanently securing to bench.

| | | |
|--------------------------|--------|--------|
| Nos. | 162 | 163 |
| Width Jaws, Inches. | 3 1/2 | 4 |
| Opening, Inches. | 4 | 6 |
| Weight Each, Lbs. | 16 | 39 |
| Each. | \$5.25 | \$8.25 |

SHEPARD COMBINATION

For Garage or Home Use

Cold Rolled Steel Sliding Bar, Detachable Steel Jaw Faces, Dull Black Orange Trimmings, with Extra Jaws for Holding Pipe.



| | | |
|---|------|--------|
| No. 161 1/2—3 in. Jaws, Opens 3 3/4 in., Weight Each 13 Lbs. | Each | \$5.00 |
|---|------|--------|

BLAKE COMBINATION

Swivel Bottom

Patent Detachable and Interchangeable Steel Jaw Faces, Reversible High Grade Steel Pipe Jaws, all Bright Parts Highly Polished.

These Combination Pipe Vises are exceptionally heavy and made to stand heavy use.



| | | | |
|----------------------|----------|--------------|--------------|
| Nos. | 180 | 180 1/2 | 181 |
| Width Jaws, In. | 2 1/2 | 3 | 3 1/2 |
| Holds Pipe, In. | 1/2 to 1 | 1/2 to 1 1/2 | 1/2 to 2 1/2 |
| Wt. Each, Lbs. | 15 | 22 | 55 |
| Each. | \$10.00 | 12.00 | 16.00 |
| Nos. | 182 | 182 1/2 | 183 |
| Width Jaws, In. | 4 1/2 | 5 | 6 |
| Holds Pipe, In. | 1/2 to 3 | 1/2 to 4 | 1/2 to 6 |
| Wt. Each, Lbs. | 80 | 120 | 180 |
| Each. | \$22.00 | 32.00 | 45.00 |

The No. 183 Vise is made with wrought steel sliding bar. An extra nut for tightening swivel base is placed on left hand side of body.

PARKER SUPERIOR COMBINATION

Parkco Metal, Swivel Base

Superior in Strength, Quality and Finish, Patent Swivel Base with Locking Attachment gives additional strength. Extra Strong Clean Cut Threads and Nuts, Saddle and Saddle Screw. Front Jaw is reversible so that it may be turned giving it double wear.



| | | | | |
|--------------------------|----------|----------|----------|----------|
| Nos. | 87 | 88 | 288 1/2 | 289 1/2 |
| Width Jaws, Inches. | 3 1/2 | 4 1/2 | 5 | 6 |
| Jaws Open, Inches. | 3 | 5 | 6 | 9 1/2 |
| Holds Pipe, Inches. | 1/2 to 2 | 1/2 to 3 | 1/2 to 4 | 1/2 to 6 |
| Weight Each, Lbs. | 47 | 71 | 118 | 185 |
| Each. | \$16.00 | 22.00 | 32.00 | 45.00 |

VICES

BULL DOG COACHMAKERS



Stationary Base
Solid Jaw, Detachable
Steel Faces

Designed with very high jaws and long arm. The deep throat and wide opening allow operator the maximum amount of room for holding work.

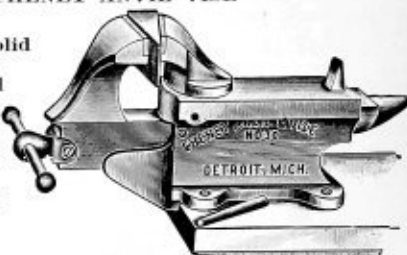
Furnished with smooth jaws.

| | | |
|---|------|---------|
| No. 59—4 1/2 in. Jaws, Open 9 in., Weight Each 48 Lbs. | Each | \$16.25 |
|---|------|---------|

CHENEY ANVIL VISE

Complete with Solid Steel Hardy or Cutting-off Tool

Iron Body, Chilled Hard and Smooth Anvil Face, Steel Faced Jaws, Wrought Iron Screw.



The adjustable jaw will turn so as to hold odd-shaped articles as shown in cut.

| | | | | |
|-----------------------------|-----------|-----------|-----------|-----------|
| Nos. | 10 | 20 | 30 | 40 |
| Face of Anvil, Inches. | 4 1/2 x 2 | 6 1/2 x 3 | 8 x 3 1/2 | 8 1/2 x 4 |
| Jaws, Inches. | 2 1/2 | 3 1/2 | 4 | 4 1/2 |
| Jaws Open, Inches. | 3 | 4 | 5 | 6 |
| Weight Each, Lbs. | 9 | 25 | 35 | 50 |
| Each. | \$14.00 | 20.00 | 24.00 | 30.50 |



STANLEY BENCH

The screw (body, head and collar) is in one piece, turned from cold rolled steel and has a square lathe cut thread. The jaws are hardened and ground to insure their meeting square when closed. Both back and front jaws are filed to fit.

| | | | | | | |
|--------------------------|--------|-------|-------|-------|-------|-------|
| Nos. | 741 | 742 | 743 | 744 | 745 | 746 |
| Width Jaws, Inches. | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 3 |
| Weight Each, Lbs. | 3 | 3 1/4 | 3 1/2 | 4 | 5 | 8 1/4 |
| Each. | \$1.60 | 1.90 | 2.25 | 2.70 | 3.15 | 4.95 |

| | | | | | | |
|--------------------------|--------|-------|-------|-------|-------|-------|
| Nos. | 761 | 762 | 763 | 764 | 765 | 766 |
| Width Jaws, Inches. | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 3 |
| Weight Each, Lbs. | 3 | 3 1/4 | 3 1/2 | 4 | 5 | 8 1/4 |
| Each. | \$2.05 | 2.35 | 2.75 | 3.15 | 3.75 | 5.50 |

Swivel Base, Brown Japanned, Hardened Steel Jaws

| | | | |
|----------------------|--------|-------|-------|
| Nos. | 773 | 775 | 776 |
| Width Jaws, In. | 2 | 2 1/2 | 3 |
| Wt. Each, Lbs. | 3 1/2 | 5 1/2 | 9 1/2 |
| Each. | \$2.80 | 4.15 | 5.70 |

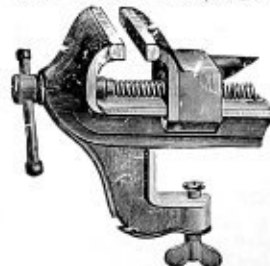


HARDY BENCH

Japanned Malleable Iron Body, Steel Screw

| | | | |
|---------------------|--------|-------|-------|
| Nos. | 1 1/2 | 2 | 2 1/2 |
| Wd. Jaws, In. | 1 1/2 | 2 | 2 1/2 |
| Jaws Open, In. | 1 3/4 | 2 1/4 | 2 3/4 |
| Wt. Ea., Lbs. | 1 | 2 | 4 |
| Each. | \$0.50 | 1.00 | 1.50 |

A moderate priced vise for home and radio work.



BENCH DRILL VISES

YANKEE



For Use on Bench Drills or Separately Attached to Bench

Iron Body and Sliding Jaws, Removable Swivel Jaw for holding taper work, $\frac{1}{2}$ in. diameter Steel Screw. Each

No. 990—Base 6 in. Long, $2\frac{3}{4}$ in. Wide, Opening of Jaws 3 in., with Swivel Jaw $2\frac{3}{4}$ in., Depth of Jaws $1\frac{1}{2}$ in., Weight 4 Lbs. \$3.50

For Use on Bench Drills or Separately Attached to Bench for Holding Work to be Machined

Iron Body, Steel Jaws, Hardened Steel Block with V Shaped Grooves for holding irregular work, $\frac{5}{8}$ in. diameter Steel Screw.



| Nos. | 991 | 992 | 993 |
|-----------------------------|-----------------|-----------------|-----------------|
| Base Length, Inches..... | 3 $\frac{3}{8}$ | 4 $\frac{7}{8}$ | 7 $\frac{1}{4}$ |
| Base Width, Inches..... | 1 $\frac{1}{2}$ | 2 | 2 $\frac{3}{4}$ |
| Jaws Open, Inches..... | 1 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 3 $\frac{1}{8}$ |
| Depth of Jaws, Inches..... | $\frac{7}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{3}{4}$ |
| Width of Jaws, Inches..... | 1 $\frac{1}{2}$ | 2 | 2 $\frac{3}{4}$ |
| Height Over All, Inches.... | 1 $\frac{1}{2}$ | 2 $\frac{3}{8}$ | 3 |
| Length Over All, Inches.... | 4 $\frac{3}{8}$ | 6 | 8 $\frac{3}{4}$ |
| Weight Each, Lbs..... | 1 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 9 $\frac{1}{8}$ |
| Each | \$3.00 | 4.00 | 7.50 |



With Swivel Base

For use on Bench Drills or Separately Attached to Bench. Iron Body and Sliding Jaws with Hardened Steel Faces, complete with a Hardened Steel Block with V Shaped Grooves of various sizes for holding irregular work in drilling, etc. The swivel base is locked or released by a short movement of lever.

| Nos. | 1991 | 1992 | 1993 |
|-----------------------------|-----------------|-----------------|------------------|
| Base Length, Inches..... | 3 $\frac{3}{8}$ | 4 $\frac{7}{8}$ | 7 $\frac{1}{4}$ |
| Base Width, Inches..... | 1 $\frac{1}{2}$ | 2 | 2 $\frac{3}{4}$ |
| Jaws Open, Inches..... | 1 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 3 $\frac{1}{8}$ |
| Depth of Jaws, Inches..... | $\frac{7}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{3}{4}$ |
| Width of Jaws, Inches..... | 1 $\frac{1}{2}$ | 2 | 2 $\frac{3}{4}$ |
| Height Over All, Inches.... | 3 $\frac{3}{8}$ | 4 $\frac{3}{8}$ | 5 $\frac{3}{8}$ |
| Length Over All, Inches.... | 4 $\frac{3}{8}$ | 6 | 8 $\frac{3}{4}$ |
| Weight Each, Lbs..... | 2 $\frac{3}{8}$ | 5 $\frac{3}{8}$ | 13 $\frac{3}{8}$ |
| Each | \$4.00 | 6.00 | 10.00 |

DRILL PRESS VISES

YOST



Gray Iron Jaws, Accurately Machined, Three Flanges on Base for attaching to Drill Press Table. A "V" shaped Slot in Jaws for vertical work.

| Nos. | 1D | 2D |
|-------------------------|------------------|-----------------|
| Width Jaws, Inches..... | 3 $\frac{1}{2}$ | 5 |
| Opens, Inches..... | 3 $\frac{1}{2}$ | 5 $\frac{1}{2}$ |
| Weight Each, Lbs..... | 12 $\frac{1}{2}$ | 23 |
| Each | \$12.00 | 16.00 |

The surfaces upon which the movable jaw slides are carefully machined, thus providing uniform alignment.

The swivel arrangement of the handle insures easiness of operations in cramped positions.

BLACKSMITHS VISES



STANDARD HOLDFAST

Solid Box

Wrought Steel, Painted Black, Polished Jaws.

| | | |
|-----------------------|---------|-------|
| Nos. | 35 | 70 |
| Width, Jaws, In. | 4 | 5 |
| Wt. Each, Lbs. | 35 | 70 |
| Each | \$10.00 | 15.00 |

PIPE VISES

HOLLANDS MALLEABLE HINGED

Screw is One-piece Steel turned from Solid Bar and has Acme thread, giving maximum strength and rapidity of action.

Pipe Jaws are Tool Steel Milled from Solid Bars and Oil Tempered.

The Base is flat with all bracing flanges underneath, making it convenient to use a wrench in fastening with lag screws or bolts.



| Nos. | 398 | 399 | 401 |
|-------------------------|----------------------------------|----------------------------------|----------------------------------|
| Holds Pipe, Inches..... | $\frac{1}{8}$ to 1 $\frac{1}{4}$ | $\frac{1}{8}$ to 1 $\frac{1}{2}$ | $\frac{1}{8}$ to 2 |
| Weight Each, Lbs..... | 4 | 5 | 10 |
| Each | \$2.50 | 3.60 | 4.25 |
| Nos. | 402 | 403 | 404 |
| Holds Pipe, Inches..... | $\frac{1}{8}$ to 2 $\frac{1}{2}$ | $\frac{1}{8}$ to 3 $\frac{1}{2}$ | $\frac{1}{8}$ to 4 $\frac{1}{2}$ |
| Weight Each, Lbs..... | 12 | 18 | 24 |
| Each | \$5.00 | 7.50 | 11.00 |



CLAMP KIT

Self-locking

Hardened and Tempered Tool Steel Jaws, Malleable Iron Hinge Frame with Clamp.

This Vice is for the worker's kit to take on the job. Quickly clamped to any convenient post or plank.

Heavy enough for average work and light enough to carry with other tools.

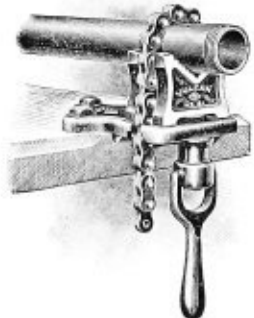
| | |
|--------------------------|----------------------------------|
| No. | 399C |
| Holds Pipe, Inches..... | $\frac{1}{8}$ to 1 $\frac{1}{2}$ |
| Clamp Opens, Inches..... | 2 |
| Weight Each, Lbs..... | 8 |
| Each | \$4.50 |

VULCAN CHAIN

Made entirely of Wrought Steel. The Drop Forged Jaws are of Saw-Tempered Steel for File Sharpening. Hand-made Flat Link Steel Chain.

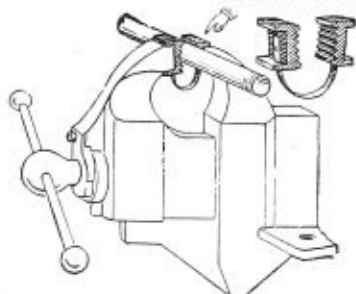
These Vises are unbreakable, compact, rapid in action and positive in gripping pipe. They are serviceable upon and suitable for fastening to bench or post.

Adjustment is quickly effected by slightly turning the screw, and further quick adjustment is gained by engaging the projecting rivets of each chain with a series of bosses on base.



| Nos. | 1 | 2 | 3 | 4 |
|-------------------------|--------------------|--------------------|--------------------|--------------------|
| Holds Pipe, Inches..... | $\frac{1}{8}$ to 2 | $\frac{1}{4}$ to 4 | $\frac{3}{4}$ to 6 | $\frac{1}{4}$ to 8 |
| Weight Each, Lbs..... | 4 | 10 | 18 | 30 |
| Each | \$7.00 | 15.00 | 27.00 | 36.00 |

VISE JAWS



ELGIN

Fits Any Vise

Hardened Steel Jaws,
Tempered Steel Spring,
Self-Adjusting.

Each
No. E-1—Holds Round
Stock $\frac{1}{4}$ to $\frac{3}{4}$ in.,
Weight Each 10 Oz.
.....\$0.50

Six in a Box.

HAND VISES

MILLERS FALLS

With Detachable Handle

Forged and Tempered Steel
Jaws, Steel Screw, Nickel Plated.
Each

No. 1—6 $\frac{1}{2}$ in. Long, Jaws
1 $\frac{1}{2}$ in. Wide, Jaws Open
1 in., Detachable Hollow
Hardwood Handle with
Screw Cap, Containing
Chisel, Screw Driver,
Countersink, Square
Reamer, Brad Awl,
Scratch Awl and Washer
Cutter, Weight Each 17
Oz.\$5.10

Furnished with a bit shank to be screwed into the tool
either in the position of the handle, or at right angles,
permitting the vise to be used in a bit brace. Handle may
be screwed into the vise at right angles.

One in a Box.



B-M-CO

No. 80—Cast Steel

Jaws Milled and
Hardened, Carbon Fin-
ish, Face of Jaws Pol-
ished.

| | | | |
|-------------------|-----------------|-----------------|-----------------|
| Length, Inches | 4 $\frac{1}{4}$ | 5 $\frac{1}{2}$ | 6 |
| Width Jaw, Inches | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ |
| Jaws Open, Inches | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Weight Each, Oz. | 10 | 18 | 24 |
| Each | \$1.00 | 1.25 | 1.50 |

One in a Box.

B-M-CO



With Hole Through Handle

No. 50—Hardened Steel Jaws, Carbon Finish, Holds
 $\frac{1}{8}$ in. and Smaller, with Octagon Metal Handle
which can be Clamped in a Vise, Weight Each
8 Oz.\$1.50

One in a Box.

STARRETT

With Angular Adjustable
Handle

Case Hardened Tool Steel,
Stained Hardwood Handle.
Each

No. 200—7 $\frac{1}{2}$ in. Long, 1 in. Opening, Depth of Jaws
1 $\frac{1}{2}$ in., Weight Each 12 Oz.\$2.15

The handle can be clamped at different angles for use
around speed lathes, drill presses, etc. The stationary jaw
has three V grooves for clamping round work.

One in a Box.



PIN VISES

STARRETT



Hollow Handle

Best Tool Steel, Properly Tempered, Knurled Handles,
Nickel Plated.

No. 162A—Capacity .0 to .040 in.\$0.65
No. 162B—Capacity .030 to .062 in.65
No. 162C—Capacity .050 to .125 in.65
No. 162D—Capacity .115 to .187 in.80

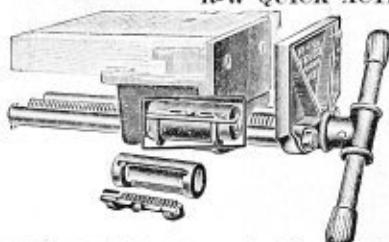
Per Set

No. S162—Set Complete, 1 Each Nos. 162A, 162B,
162C and 162D.\$2.75

Six in a Box.

WOODWORKERS VISES

R-W QUICK ACTING



Screw 1 in. Diam-
eter, 4 Threads
to the Inch

These vises are
equipped with a
two-piece cam-oper-
ated nut. This nut
is simple and abso-
lutely reliable in
operation and will
not get out of or-
der, as there are no

small parts to wear out. The nut is phosphor bronze, the
nut sleeve is made of grey iron.

Cold rolled steel guides, best grey iron jaws. Each

No. 430-1—Jaws 7 in. Wide and 4 in. Deep, Open 10
in., Weight Each 32 Lbs.\$ 9.00
No. 430-2—Jaws 10 in. Wide and 5 in. Deep, Open
12 in., Weight Each 42 Lbs. 10.80

LIGHTNING GRIP QUICK-ACTING

Simple, Quick-Acting
and Durable

The operation of
this vise is very sim-
ple. When the han-
dle is in an upright
position the cam (H)
allows the dog (L) to
disengage the rack (E). This allows the front jaw to be
moved freely and adjusted to the work. By moving the
handle a quarter turn to the right, the cam forces the dog
to engage in the rack and lock securely.



No. 17—Width of Jaws 9 in., Opens 12 in., Weight
Each 47 Lbs.\$12.00
No. 19—Width of Jaws 7 in., Open 7 in., Weight
Each 29 Lbs. 10.00

CHRISTIANSEN STEEL SCREW

Jaw Fitted with Wood Facing

This vise is fastened on un-
der the bench top with 4
screws and is ready for use.

Each

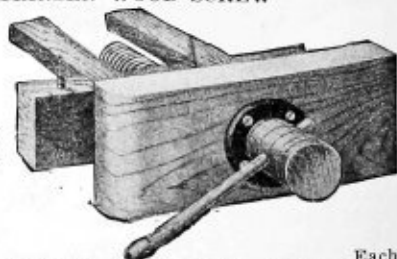
No. 0—Width of Jaws 10
in., Opens 9 in., Weight
17 Lbs.\$6.00



CHRISTIANSEN WOOD SCREW

Hard Maple Jaw

Complete ready
to be attached to
bench.



No. 1W—Jaw 12x4 $\frac{1}{2}$ x2 $\frac{1}{4}$ in., Guide 12x2 $\frac{1}{4}$ x1 $\frac{1}{4}$ in.,
Slides 17 $\frac{1}{2}$ x1 $\frac{1}{4}$ x1 $\frac{1}{4}$ in., Screw 21x2 in., Weight
5 Lbs.\$5.25

Each

WORK BENCHES

MANUAL TRAINING



Hard White Northern Maple

Finished in Shellac

Fitted with two Christiansen Steel Screw Vises, two Wood Stops, Tool Recess $3\frac{1}{2}$ in. Wide, Size of Vise 10 in. Wide, Opens 9 in. The Screw is Cut from Cold Rolled Steel with the Continuous Double Thread Traveling in the Solid Nut. Legs 3×2 in., Strongly Mortised Joints.

No. 21—Top 48 in. Long, 22 in. Wide, $1\frac{3}{4}$ in. Thick, 32 in. High, Working Top $13\frac{1}{2}$ in. Wide, Weight Each 120 Lbs. \$28.50

This is a favorite pattern for use where neither cupboard nor drawer space is required, it stands perfectly rigid. Holes mortised for stops along the front.

MANUAL TRAINING



Hard White Northern Maple

Finished in Shellac

Substantial construction and beautiful finish.

Three private drawers with locks and large cupboard.

Holes for wood stops are mortised conveniently near the front and two spring stops are regularly furnished with each bench. Saw Cut Threaded Screw Vises.

Equipped with two Christiansen Wood Screw Vises, 12 in. Jaws.

Working Top $13\frac{1}{2}$ in. Wide, Tool Recess $8\frac{1}{2}$ in. Wide, Private Drawers $18 \times 16 \times 5$ in., Cupboard $18\frac{1}{2} \times 18\frac{1}{4} \times 10$ in.

No. 13—Top 48 in. Long, 22 in. Wide, $1\frac{3}{4}$ in. Thick, Extreme Length 56 in., 32 in. High, Weight Each 160 Lbs. \$42.00

Each of the drawers in the cabinet of this bench is fitted with brass cylinder locks having two keys. They are also equipped with brass drawer pulls.

CABINET MAKERS



Hard White Northern Maple

Finished in Shellac

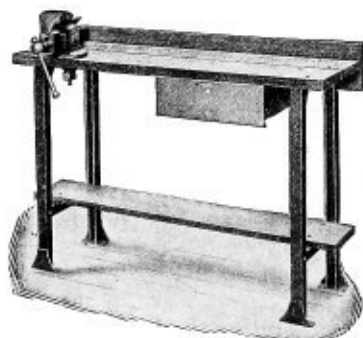
Thoroughly Seasoned, Heavily Glued and Well Finished Working Top, equipped with two Saw Cut Threaded Wood Bench Screws $2\frac{1}{2}$ in. Diameter.

Height 34 in., Maple Top 16 in. Wide, Tool Recess 8 in. Wide, Legs 2×3 in.

No. 1A—Top 78 in. Long, 24 in. Wide, Weight Each 180 Lbs. \$54.00

These Benches are built especially substantial for cabinet makers, pattern makers and carpenters use.

HALLOWELL HOME WORK



For the Garage, Basement and Boys' Radio Room

The Hallowell is a complete work bench shipped knocked down, easily assembled. Every board comes to you with all necessary holes drilled in it ready to be fastened to the steel legs. The steel drawer is equipped with a tray for small tools and slides on ledges inside of drawer. A machinists or woodworkers vise can be easily attached to the bench.

No. 2—With Drawer $15 \times 14 \times 5$ in., without Vise, 48 in. Long, 15 in. Wide, 32 in. High, Weight Each 60 Lbs. \$15.25

No. 1—Without Drawer or Vise, Weight Each 52 Lbs. 11.30

BENCH SCREWS

PEXTO IRON



Wrought Iron Screw

Double Thread, Movable Collar, Second Growth Hickory Handle, Removable Knobs.

| Nos. | 40A | 40B | 40C | 40D |
|----------------------------|---------|-------|-------|--------|
| Diameter of Screw, Inches. | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| Length Over All, Inches. | 16 | 16 | 17 | 19 1/2 |
| Length Under Collar, In. | 13 | 13 | 14 | 16 |
| Weight Per Dozen, Lbs. | 65 | 80 | 90 | 140 |
| Per Dozen | \$13.20 | 16.00 | 19.20 | 30.00 |

Nos. 40A to 40C, One Dozen; No. 40D, One-half Dozen in a Case.

WOOD



Saw Cut from Hard White Maple

Wood Handle 13 1/2 in. Long, 1 in. Diameter with Threaded Knob on One End.

| | |
|-------------------|--------|
| Nos. | 19 |
| Length, Inches | 24 |
| Diameter, Inches | 2 1/2 |
| Weight Each, Lbs. | 5 |
| Each | \$3.00 |

Open Stock.

BENCH BRACKETS

STANLEY



When the Jaw or Nose is put through a hole in the Bench Front it is automatically held in place, and by means of the Screw Clamp, the board being worked upon is firmly secured.

| | |
|-----------------------------|--------|
| No. 203—All Metal Japanned. | Each |
| Weight 1 Lb. | \$0.75 |
| Six in a Box. | |

PINCH DOGS

JOHNSON



For Pattern and Cabinet Makers

Cuts Half Size. Forged from Bar Steel. Corners Over the Legs are Square, Making Easy Driving.

| Nos. | 00 | 0 | 1 | 2 | 3 |
|---------------------------|--------|-------|-------|-------|-------|
| Size of Steel, Sq. Inches | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 |
| Length, Inches | 3 1/4 | 1 | 1 1/4 | 2 | 2 3/4 |
| Weight Per Dozen, Lbs. | 1 1/4 | 1 1/2 | 1 3/4 | 2 1/4 | 2 3/4 |
| Per Dozen | \$2.00 | 1.50 | 1.50 | 2.00 | 2.50 |

BENCH STOPS

MORRILL

Adjustable



The working plate and spindle are held in any position by a cam lever operated by a screw and nut. These are an ordinary stove bolt and only need one-half turn to operate the cam lever.

Per Dozen

| | |
|---|---------|
| No. 1—3 1/2 x 2 in. Face, Made of Semi and Wrought Steel, Polished Face, with One Set of Teeth, | |
| Weight Per Dozen 12 Lbs. | \$24.00 |
| One-half Dozen in a Box. | |

MILLERS FALLS

With Four Faces

Steel Hook, Nickel Plated, Inner Surface of Socket Enamelled Red, Edge of Socket Polished, Adjustable to any desired position and height by means of a Set Screw in Center. One Side of Face has Coarse Teeth, One Side Fine. One Side has V Notch and the Other Face is Plain.



Each

| | |
|---|--------|
| No. 56—2 in. Diameter Upper Socket, 1 in. Diameter Lower Socket, Weight Each 10 Oz. | \$1.15 |
| Six in a Box. | |

HARGRAVE

Adjustable to Any Angle



Japanned Body, Polished Face.

The Shank is adjustable to any angle or can be taken out to clear the shavings. The shank is held by means of a thumb screw counter-sunk in front of bench.

Per Dozen

| | |
|---|---------|
| No. 401—4 in. Adjustment of Shank, Weight Per Dozen 14 1/4 Lbs. | \$18.00 |
| One-half Dozen in a Box. | |

SCREW BOXES



For Cutting Screws on Wood Dowels, Etc.

The Illustration Shows Style of Top Furnished with Each Box.

| Nos. | 10A | 10B | 10C | 10D |
|-----------------------|-----|-----|-------|-------|
| Cutting Size, Inches. | 3/8 | 1/2 | 5/8 | 3/4 |
| Each | \$ | ... | ... | ... |
| Nos. | 10E | 10F | 10G | 10H |
| Cutting Size, Inches. | 3/8 | 1 | 1 1/4 | 1 1/2 |
| Each | \$ | ... | ... | ... |

Prices on Application.

One in a Package.

TOOLMAKERS CLAMPS

STARRETT PARALLEL



For Holding Small Work Together, in Tapping, Drilling, etc.

These Clamps are made of Steel, Case Hardened, and are very useful for Holding Small Work together, in Tapping, Drilling, etc.

| Nos. | 161AA | 161A | 161B | 161C | 161D |
|------------------------|----------------|----------------|----------------|----------------|----------------|
| Opening of Jaw, Inches | $\frac{3}{8}$ | $1\frac{1}{4}$ | $1\frac{3}{4}$ | $2\frac{1}{4}$ | $2\frac{3}{4}$ |
| Length of Jaw, Inches | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ | 3 | 4 |
| Per Pair (2 Clamps)... | \$1.40 | 1.70 | 2.00 | 2.40 | 2.60 |

One Pair in a Box.

BROWN & SHARPE



No. 754—With Spring Attachment

Steel Case Hardened with Spring Attachment for Holding the Loose Jaw Tightly and Preventing its Dropping or Sliding while Opening or Closing the Clamp.

| Opening of Jaws, In... | $\frac{3}{8}$ | 1 | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ |
|------------------------|----------------|----------------|----------------|----------------|----------------|
| Length of Jaws, In... | $1\frac{1}{2}$ | $2\frac{1}{2}$ | $2\frac{3}{4}$ | $3\frac{3}{4}$ | 4 |
| Weight Each, Lbs.... | $\frac{7}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{1}{2}$ | 1 |
| Each | \$0.70 | .85 | 1.00 | 1.20 | 1.30 |

These Clamps are designed and proportioned throughout to insure the greatest strength and rigidity.

One in a Box.

STARRETT BLOCK



Drop Forged Steel, Case Hardened

These Clamps have take-up blocks to slip on and off end of screw.

Will hold work square and parallel for laying out on surface plates, fitting or drilling. Has hole in block to insert screw, so that block may be fastened to bench, and used as a small vice.

| No. 160—Size, Inches | 2 | 3 |
|--------------------------|--------|------|
| Opening, Inches | 2 | 3 |
| Per Pair (2 Clamps)..... | \$2.50 | 3.00 |

One Pair in a Box.

DRILL BLOCKS AND CLAMPS

STARRETT



The Clamp will hold a round piece up to $1\frac{1}{2}$ in. diameter firmly in the groove of the blocks, for prick punching, drilling or laying out a series of holes before and while being drilled.

Per Pair

No. 268A—Two Drill Blocks, Size of Each $2\frac{1}{2}$ in. \$1.25

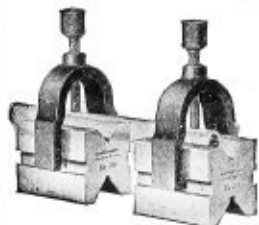
No. 268B—Clamp Only Each, .60

No. 268C—Set, Complete Per Set, 1.85

DRILL BLOCKS AND CLAMPS

BROWN & SHARPE

Hardened Tool Steel



For laying out work in connection with surface plate, angle iron or knee. Sides of blocks ground parallel. Blocks are approximately $1\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{2}$ in. and take work 1 in. diameter.

Per Set
No. 750—Set, 2 Blocks and 2 Clamps \$6.75
One Set in a Box.

MACHINISTS C CLAMPS

BILLINGS & SPENCER

Model AY

Drop Forged Steel, Heat Treated. Tool Steel Screw Hardened and Tempered, "Duro" Black Rust-proof Finish.

| Nos. | 1 | 2 | 3 |
|-------------------|----------------|----------------|----------------|
| Opens, Inches... | $1\frac{1}{4}$ | $2\frac{1}{4}$ | $3\frac{1}{4}$ |
| Depth, Inches... | 1 | $1\frac{1}{2}$ | $2\frac{1}{2}$ |
| Wt. Each, Lbs.... | $\frac{7}{16}$ | 2 | $5\frac{1}{4}$ |
| Each | \$1.50 | 3.50 | 5.00 |

| Nos. | 4 | 5 |
|-------------------|----------------|-----------------|
| Opens, Inches... | $4\frac{1}{2}$ | $6\frac{1}{2}$ |
| Depth, Inches... | $2\frac{1}{2}$ | $3\frac{3}{4}$ |
| Wt. Each, Lbs.... | $7\frac{1}{2}$ | $11\frac{1}{2}$ |
| Each | \$6.50 | 8.00 |



LATHE DOGS

DROP FORGED STEEL



Model CK Safety Screw

Drop Forged Steel, "Duro" Black Rust-proof Finish.

| Nos. | 1B | 2B | 3B |
|--------------------|----------------|---------------|---------------|
| Size, Inches..... | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Weight Each, Oz... | $3\frac{1}{2}$ | 5 | 9 |
| Each | \$1.00 | 1.10 | 1.20 |
| Wrench, Extra, Ea. | .12 | .14 | .16 |

| Nos. | 4B | 5B | 6B |
|--------------------|-----------------|----------------|----------------|
| Size, Inches..... | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Weight Each, Oz... | $14\frac{1}{2}$ | 26 | 32 |
| Each | \$1.40 | 1.70 | 2.00 |
| Wrench, Extra, Ea. | .16 | .20 | .24 |

MALLEABLE IRON

Bent Tail

With U. S. Standard Steel Set Screw, Points Hardened.

These Dogs are recommended for heavy work and have a number of uses when a Drop Forged Clamp is not necessary.

| Nos. | 1 | 2 | 3 |
|----------------------|---------------|---------------|---------------|
| Size, Inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Weight Each, Lbs.... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{5}{8}$ |
| Each | \$0.40 | .50 | .60 |

| Nos. | 4 | 5 | 6 |
|----------------------|---------------|---------------|----------------|
| Size, Inches | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Weight Each, Lbs.... | $\frac{3}{8}$ | 1 | $1\frac{1}{4}$ |
| Each | \$0.60 | .70 | .70 |

| Nos. | 7 | 8 | 9 | 10 | 11 |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| Size, Inches | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{3}{8}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ |
| Weight Each, Lbs.... | $1\frac{1}{2}$ | $1\frac{3}{4}$ | $1\frac{3}{4}$ | 2 | $2\frac{3}{4}$ |
| Each | \$0.80 | .80 | .95 | .95 | 1.10 |

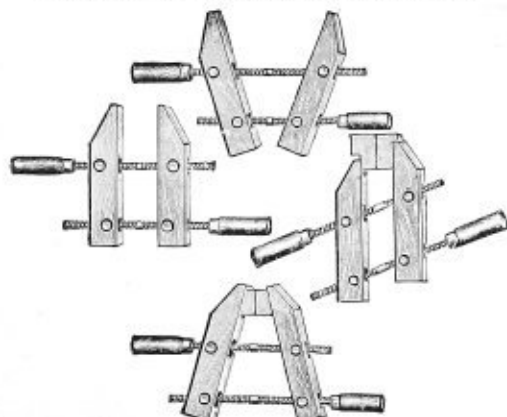
| Nos. | 12 | 13 | 14 | 15 |
|----------------------|----------------|----------------|----------------|----------------|
| Size, Inches | 2 | $2\frac{1}{4}$ | $2\frac{1}{2}$ | 3 |
| Weight Each, Lbs.... | $3\frac{1}{2}$ | $4\frac{1}{4}$ | $5\frac{1}{4}$ | $6\frac{1}{2}$ |
| Each | \$1.20 | 1.35 | 1.45 | 1.60 |

| Nos. | 16 | 17 | 18 | 19 |
|----------------------|----------------|------|----------------|------|
| Size, Inches | $3\frac{1}{2}$ | 4 | $4\frac{1}{2}$ | 5 |
| Weight Each, Lbs.... | 10 | 12 | 15 | 18 |
| Each | \$1.80 | 2.10 | 2.75 | 3.25 |



HAND SCREWS

JORGENSEN PEERLESS ADJUSTABLE



Adjustable to Any Angle

Hard Maple Jaws, Oil Finish, Spindles and Sockets Made of Steel, Right and Left Thread.

| Nos. | 5/0 | 4/0 | 3/0 | 2/0 | 0 | 1 |
|---------------------|---------|-------|-------|-------|-------|-------|
| Jaws Open, In.... | 2 | 2 1/2 | 3 | 3 1/2 | 4 1/2 | 6 |
| Length Jaws, In.... | 4 | 5 | 6 | 7 | 8 | 10 |
| Wt. Dozen, Lbs.... | 5 | 6 | 11 | 12 | 23 | 30 |
| Per Dozen..... | \$15.00 | 16.20 | 18.00 | 19.20 | 21.00 | 24.00 |

| Nos. | 2 | 3 | 4 | 5 | 6 | 7 |
|---------------------|---------|-------|-------|-------|-------|-------|
| Jaws Open, In.... | 8 1/2 | 10 | 12 | 14 | 14 | 17 |
| Length Jaws, In.... | 12 | 14 | 16 | 18 | 20 | 24 |
| Wt. Dozen, Lbs.... | 50 | 60 | 85 | 100 | 112 | 130 |
| Per Dozen..... | \$27.00 | 30.00 | 36.00 | 42.00 | 48.00 | 60.00 |

Nearly twice as fast as any other hand screw made, its spindles being equipped with a right and left hand thread. Its jaws can be adjusted to any angle, thus doing away with the necessity of squaring up irregular surfaces, which every other clamp requires.

REGULAR

Best Quality Seasoned Hickory Screws, Hard Maple Jaws, Oil Finish

| Nos. | 811 | 808 | 806 | 804 | 802 |
|------------------------|---------|-------|-------|--------|-------|
| Length Jaw, In.... | 12 | 14 | 16 | 18 | 20 |
| Diam. Screw, In.... | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 |
| Length Spindle, In.... | 14 | 18 | 20 | 22 | 24 |
| Opens, Inches..... | 7 1/4 | 10 | 11 | 12 1/4 | 14 |
| Square Jaw, Inches.. | 1 1/4 | 2 1/4 | 2 3/4 | 2 1/2 | 2 3/4 |
| Wt. Dozen, Lbs.... | 25 | 40 | 52 | 75 | 120 |
| Per Dozen..... | \$17.00 | 22.00 | 25.00 | 28.50 | 32.00 |

HANDY CLAMPS



Stamped Steel, Nickel Plated

With oil tempered springs. Snaps on in an instant and holds with a solid grip. Will hold all kinds of material for glueing or for other class of work. Takes the place of hand screws.

| Nos. | 1 | 2 | 3 |
|-----------------------|--------|-------|-------|
| Length, Inches..... | 4 | 6 | 9 |
| Jaws Open, Inches.... | 1 | 1 1/2 | 2 3/4 |
| Weight Each, Oz..... | 3 | 4 | 12 |
| Per Dozen..... | \$2.00 | 3.00 | 4.50 |

CARRIAGE MAKERS CLAMPS

HARGRAVE



With Ball and Socket Tips

Malleable Iron Frame, Steel Screw. The Best Clamp on the Market. Plain Finish, Heavily Reinforced Back, Steel Screw with Deep Cut Acme Threads, Steel Wings.

| Nos. | 536 | 537 | 538 | 539 | 540 |
|-----------------------|--------|-------|-------|-------|-------|
| Opens, Inches..... | 2 1/2 | 3 | 4 | 5 | 6 |
| Clearance, Inches.... | 1 3/8 | 1 7/8 | 2 1/4 | 2 1/2 | 2 3/4 |
| Weight Each, Lbs.... | 3/4 | 7/8 | 1 1/4 | 1 7/8 | 2 1/4 |
| Per Dozen..... | \$7.00 | 8.00 | 11.00 | 14.00 | 18.00 |

| Nos. | 541 | 542 | 544 | 545 |
|-----------------------|---------|-------|-------|-------|
| Opens, Inches..... | 7 | 8 | 10 | 12 |
| Clearance, Inches.... | 3 | 3 1/4 | 3 3/4 | 3 3/4 |
| Weight Each, Lbs.... | 3 | 3 3/8 | 5 1/2 | 7 1/2 |
| Per Dozen..... | \$22.00 | 28.00 | 36.00 | 46.00 |

Nos. 536 to 540, One-half Dozen in a Box; Nos. 541 to 545, Open Stock.

SNOW QUICK ACTING



Instantly Adjustable

Malleable Iron Clamp, Best Norway Iron Screw. By pressing lever, screw can be moved backward or forward without turning.

| Nos. | S3 | S4 | S5 | S6 |
|----------------------|---------|-------|-------|-------|
| Opens, Inches..... | 3 | 4 | 5 | 6 |
| Weight Each, Lbs.... | 1 | 1 1/2 | 2 | 2 1/2 |
| Per Dozen..... | \$12.00 | 13.50 | 15.00 | 21.00 |

Open Stock.

BODY CLAMPS

HARGRAVE

With Button Tips

Malleable Iron Frame, Steel Screw.

Deeper and stronger than the Standard Carriage Clamp. Steel Screw, Shaped Grip.

| Nos. | 604 | 606 | 608 | 610 |
|-----------------------|---------|-------|-------|-------|
| Opens, Inches..... | 4 | 6 | 8 | 10 |
| Clearance, Inches.... | 2 1/2 | 3 3/8 | 3 3/4 | 4 |
| Weight Each, Lbs.... | 1 1/4 | 3 1/4 | 4 3/4 | 6 3/4 |
| Per Dozen..... | \$14.00 | 22.00 | 34.00 | 42.00 |

Open Stock.



QUILT FRAME CLAMPS

Swivel Head Screw

Cast Iron, Japanned, Cast Screw.

| Nos. | 32 | 33 |
|----------------------|---------|-------|
| Open, Inches..... | 1 7/8 | 2 3/4 |
| Weight Each, Oz..... | 4 | 6 1/2 |
| Per Hundred..... | \$15.75 | 17.75 |

No. 32, Twenty-five; No. 33, Ten in a Box.

DRAUGHTMENS CLAMPS

Japanned Iron, Polished Steel Screw

Intended for draughtsmen and machinists' use.

| Nos. | 1 | 2 |
|----------------------------|--------|-------|
| Opening, Inches..... | 3/4 | 3/4 |
| Depth, Inches..... | 5/8 | 1 1/4 |
| Weight Per Dozen, Lbs..... | 1 | 1 1/2 |
| Per Dozen..... | \$1.75 | 2.00 |

A revolving iron display stand is furnished free with an order for one dozen of each size clamps.



CARPENTERS CLAMPS

HARGRAVE IMPROVED STEEL "I" BAR



With Side Notches and Adjusting Dog

High Carbon "I" Shape Steel Bar, $\frac{5}{8}$ in. Diameter Acme Thread Steel Screw, Malleable Iron Crank, Frame and Slide. The Slide has tempered dog for engaging notches. The notches do not weaken the bar as they are in the web instead of being cut through the flange at bottom of bar.

Steel "I" Bar $1\frac{1}{2} \times \frac{5}{8} \times \frac{1}{2}$ in.

| | | | | |
|-------------------|--------|------|------|------|
| Nos. | 640 | 641 | 642 | 643 |
| Opens, Feet | 2 | 2½ | 3 | 3½ |
| Weight Pair, Lbs. | 12¼ | 13 | 15¼ | 16 |
| Per Pair | \$7.60 | 7.80 | 8.00 | 8.50 |

| | | | | |
|-------------------|--------|------|-------|-------|
| Nos. | 644 | 645 | 646 | 647 |
| Opens, Feet | 4 | 4½ | 5 | 6 |
| Weight Pair, Lbs. | 17¼ | 18¾ | 19¾ | 22¼ |
| Per Pair | \$9.00 | 9.50 | 10.00 | 11.00 |

STEARNS STEEL BAR



Efficient, Powerful and Convenient

The notches are cut on the lower edge of the bar affording greater holding power to the sliding jaw than if they were on the upper edge.

Special quality stiff steel T bar, malleable bar sliding paws, pawls and crank. Ebonized wood handle, steel screws with deep and powerful thread.

Regular, $\frac{3}{4} \times 1\frac{1}{2}$ in. Bar, $\frac{5}{8}$ in. Screws

| | | | |
|-------------------|--------|------|------|
| Nos. | 101 | 102 | 104 |
| Opens, Feet | 1½ | 2 | 3 |
| Weight Pair, Lbs. | 13 | 14 | 16 |
| Per Pair | \$8.75 | 9.00 | 9.50 |

| | | | |
|-------------------|---------|-------|-------|
| Nos. | 105 | 106 | 107 |
| Opens, Feet | 4 | 5 | 6 |
| Weight Pair, Lbs. | 18 | 20 | 23 |
| Per Pair | \$10.50 | 12.00 | 13.50 |

Extra Heavy $\frac{3}{4} \times 1\frac{3}{4}$ in. Bar, $\frac{3}{4}$ in. Screws

| | | |
|-------------------|---------|-------|
| Nos. | 154 | 155 |
| Opens, Feet | 7 | 8 |
| Weight Pair, Lbs. | 37 | 40 |
| Per Pair | \$24.00 | 26.00 |

CABINETMAKERS CLAMPS

STEARNS ECCENTRIC, QUICK-ACTING



Style A

Best Quality Refined Malleable Iron, Swivel Head, Eccentric Lever.

| | | | | | |
|---------------------|--------|------|-------|-------|-------|
| Nos. | 0A | 1A | 2A | 3A | 4A |
| Open, Inches | 2¼ | 4 | 6 | 8 | 12 |
| Wt. Per Dozen, Lbs. | 6 | 12 | 20 | 25 | 30 |
| Per Dozen | \$7.20 | 9.60 | 13.20 | 16.80 | 20.40 |

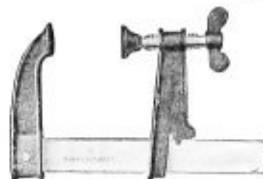
QUICK CLAMPS

HARGRAVE

Movable Frame, Stationary Foot

The best Clamp for general purposes. Can be instantly applied or removed from the work.

High Carbon Manganese Steel Bar, Malleable Iron Frame and Foot.

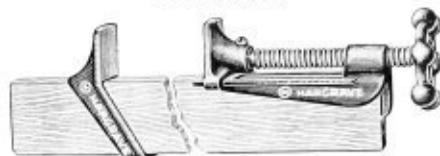


Steel Bar $1\frac{1}{4} \times \frac{3}{8}$ in. Frame $4\frac{1}{2}$ in. Deep

| | | |
|-------------------|---------|-------|
| Nos. | 502A | 502B |
| Length Inches | 12 | 18 |
| Weight Each, Lbs. | 2½ | 3½ |
| Per Dozen | \$34.00 | 40.00 |

CLAMP FIXTURES

HARGRAVE



Without Bar

Malleable Iron, Steel Screw. Quickly and easily attached to any length Wooden Bar.

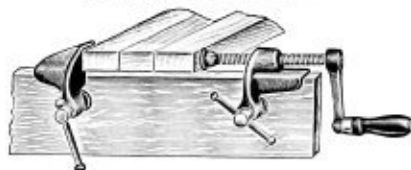
No. 615—Will Fit $2\frac{1}{4} \times 1\frac{1}{2}$ in. Bar, Weight Per Set 2½ Lbs. \$1.25

A set consists of head and tail piece.

Mounted on Hardwood Bars

| | | | | | | |
|--------------|---------|-------|-------|-------|-------|-------|
| Nos. | 616 | 617 | 618 | 619 | 620 | 621 |
| Opening, Ft. | 1 | 2 | 3 | 4 | 5 | 6 |
| Per Dozen | \$21.60 | 24.00 | 27.00 | 30.00 | 33.00 | 36.00 |

STEARNS UNIVERSAL



Fixtures Only

The Jaws and Crank are made of Malleable Iron, all the Screws are made of Steel with a deep powerful thread. Fitted with Malleable Ball and Socket Washers, which adapt themselves to any uneven surfaces.

No. 32—A Pair Consists of Two Sections Only, the Head Piece and the Sliding Jaw, to be Used on Any Piece of Timber up to $1\frac{1}{2}$ in. Thick and 2 in. or Over Wide, Wt. Per Dozen Pairs 64 Lbs. \$3.00

FLOORING CLAMPS

STEARNS

Malleable Iron

A useful and Labor Saving Device for Laying Flooring.

No. 1—14 in. Handle, Weight Per Dozen 30 Lbs. \$12.00



SAW CLAMPS

GUNN FOLDING



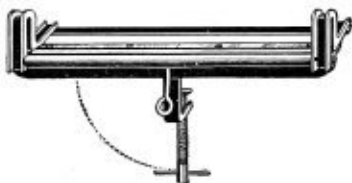
High Grade Malleable Iron, Black Japanned Finish, Cord Lined Jaws make Filing Practically Noiseless.

Each
No. 16—16 in. Long, Weight Each 3 Lbs. \$2.25

The length of the jaws permit filing full size hand or rip saw with but one change. This Clamp takes up no more space than an ordinary carpenter's hammer.

One in a Box.

NEVERBREAK, ALL STEEL



Heavily Japanned Frame, Nickel Plated Parts

These Vises are Made from Angle, Channel and Bar Steel, Electric Spot Welded Together, Easily Adjusted Clamp, Patented Eccentric Locking Roll, Roll Grips the Saw Evenly Full Length of Jaw.

Per Dozen
No. 57—9½ in. Jaws, Weight Per Dozen 18 Lbs. \$12.59

With Rubber Cushioned Jaws

Per Dozen
No. 67—10 in. Jaws, Weight Per Dozen 21 Lbs. \$15.00
One-twelfth Dozen in a Box.

STANDARD



Gray Iron Japanned, Plain Faced Jaws

Riveted Outer Jaw, with Cam Lever Tightener, to be Screwed to Bench.

Per Dozen
No. 0—9½ in. Jaws, 8½ in. High, Weight Per Dozen 35 Lbs. \$8.00

Open Stock.

Adjustable Upright Pattern

Gray Iron, Japanned, Riveted Outer Jaw with Cam Lever Tightener, to be Clamped to Bench.

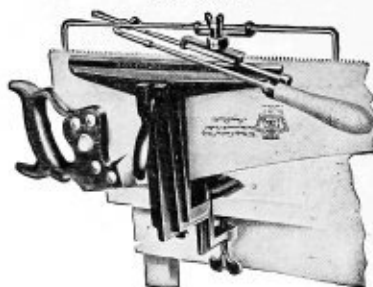
Per Dozen
No. 3—9½ in. Plain Faced Jaws, Height Above Bench 9½ in., Length Over All 14½ in., Clamp Opens 1¾ in., Weight Per Dozen 48 Lbs. \$13.00

Open Stock.



SAW FILING VISE AND GUIDE

DISSTON



With Clamp, File and Handle

Japanned Malleable Iron Clamp, Malleable Iron File Attachment and Slide, Polished Steel Wire Guide, Complete with File and Handle.

Each
No. D3—12½ in. Plain Faced Jaws, Average Weight Each 20 Lbs. \$6.75

Especially designed to assist those not skilled in the art of saw filing to file a saw correctly.

The cut shows a saw and the guide in proper position for filing. There are three marks on the upper hub of the swivel attachment. One of the three marks shows when it is in position for one side and the other designates when it is in position for filing the other side. The third or center mark shows when it is in position for filing Rip saws.

One in a Box.

SAW FILING GUIDE AND CLAMP

DISSTON



Complete with File

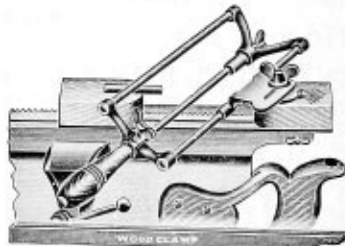
Japanned Iron, Steel Saw Guide, Eccentric Lever Opens and Closes Jaw. File Holder Works on Swivel and can be Adjusted to Any Position.

Each
No. D5—15 in. Long, Jaws 12 in., Weight Each 5 Lbs. \$4.50

This tool is compactly built, requires but little room in tool box, is light in weight and durable.

One in a Box.

ATKINS



Used with Wood Clamp in Any Vise

With this tool every tooth is kept the same pitch and bevel, it being impossible to change its position without re-adjusting the filer. By means of a pointer and index the same angle and bevel is obtained on both sides of the saw. This filer can be used with wood clamp in any ordinary vise or with iron saw clamp.

Per Dozen
No. 201—Weight Each 3¾ Lbs. \$36.70
One in a Box.

SAW SETS MORRILL SPECIAL



Indicating Anvil, Lock Nut Adjustment

The Anvil gives at one adjustment both the correct angle and depth of set.

No. 95—6 $\frac{1}{2}$ in. Long, Semi and Tool Steel, Polished, for Hand Saws and Band Saws Not Over 16 Gauge, Weight Per Dozen 8 Lbs. \$22.50
One-half Dozen in a Box.

MORRILL PERFECT



With Sliding Anvil

For Hand, Band, Jig, Butcher and Fret Saws, $\frac{1}{2}$ in. and Wider, Not Over 16 Gauge Thick.

Same Frame, Handle and Parts as the Morrill "Special" except that it has sliding anvil and is for the experienced person who knows how a saw should be set and desires more latitude of set than is given with the "Special".

No. 1—6 $\frac{1}{2}$ in. Long, Weight Per Dozen 7 $\frac{1}{2}$ Lbs. \$22.50
One-half Dozen in a Box.

MORRILL PATTERN



With Sliding Adjustment

Malleable Iron, Polished, for Hand, Band and Jig Saws. This Set is offered as a good tool for a moderate price and answers the purpose for a Saw Set for ordinary use.

No. 3155—7 in. Long, Weight Per Dozen 8 Lbs. \$22.40
One-half Dozen in a Box.

STANLEY "PISTOL GRIP" ADJUSTABLE



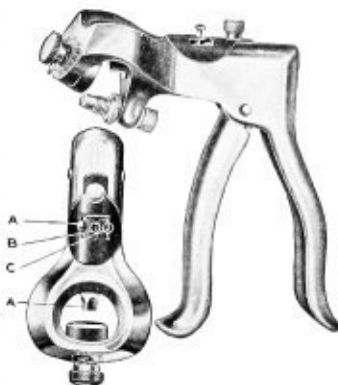
For Hand Saws

Tool Steel Plunger and Anvil, Hardened and Tempered, Carefully Machined Parts, Black Finish. Each No. 42—Weight Each 1 Lb. \$2.40

The shape of this set permits a natural position and the saw is held in firmly against the gauge while tooth is being set, teeth are always in plain view. Anvil is graduated so that any adjustment can be readily duplicated.

One in a Box.

SAW SETS STEARNS PISTOL GRIP



With Oscillating Plunger

Hardened Anvil and Plunger, Finely Tempered Steel Springs.

Simple to operate as there are only three adjustments—(A) and (C) slots are used for setting Rip Saws, (B) slot is used for Cross Cut Saws. When setting Saw the Plunger comes in contact with Tooth at proper angle and does not interfere with any other. Teeth are set on both sides alike.

No. 695—Nickel Plated, Weight Per Dozen 12 Lbs. \$30.00
One in a Box.

TAINTOR POSITIVE



All Steel, Nickel Plated

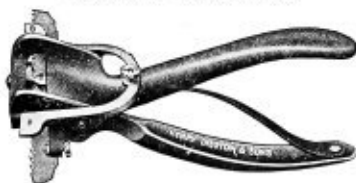
Anvil has 10 Different Pitches, for Hand and Other Fine Tooth Saws.

No. 7—6 in. Long, Weight Per Dozen 7 Lbs. \$17.00

Consists of frame to which are attached two movable handles, an anvil and punch. Twenty adjustments are obtainable. Faces of anvil are numbered and will produce any setting ordinarily required.

One-half Dozen in a Box.

DISSTON MONARCH



Tool Steel Parts, Barff Finish, Polished Head

No. 2—6 in. Long, Steel Frame, Hardened Steel, Anvil and Plunger, Flat Steel Spring, for Hand, and All Small Saws, Weight Per Dozen 8 Lbs. \$16.50
One-twelfth Dozen in a Box.

DISSTON TRIUMPH



Tool Steel Parts, Barff Finish, Polished Head

No. 28—7 $\frac{1}{2}$ in. Long, for Hand, Back, Web and Narrow Band Saws, 10 Points to the Inch and Coarser, Weight Per Dozen 9 $\frac{1}{2}$ Lbs. \$22.50
One-twelfth Dozen in a Box.

SAW SETS

AIKEN PATTERN



To be Set in Vise or Hole of Bench

Forged Steel Anvil and Hammer, Polished, with Set Screw for Gauging Angle of Set.

No. 1A—Weight Per Dozen 6 Lbs. \$7.00
One-half Dozen in a Box.

MORRILL



For Cross Cut Saws

Semi-Steel Handles, Tool Steel Anvil and Plunger, Cast Finish, with Sliding Adjustable Anvil.

No. 3—9 $\frac{3}{8}$ in. Long, Pointed Plunger for Single Tooth Cross Cut Saws 14 to 20 Gauge, Weight Per Dozen 15 Lbs. \$33.00
No. 4—9 $\frac{3}{8}$ in. Long, Square Plunger for Champion, M and Other Double Tooth Saws, Weight Per Dozen 15 Lbs. 33.00
One-half Dozen in a Box.



For Cross Cut and Mill Saws

Semi-Steel Handles, Tool Steel Anvil and Plunger with Sliding Adjustable Anvil for Board Saws 6 to 14 Gauge.

No. 5—15 in. Long, Natural Finish, Weight Per Dozen 36 Lbs. \$48.00
One-half Dozen in a Box.

SAW JOINTERS

PERFECT



For Hand Saws

Wrought Steel, Black Japanned, Complete with File, Joints the Teeth Absolutely True.

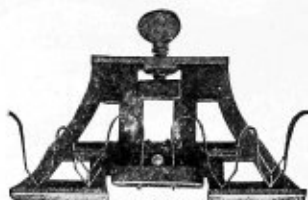
Perfect—Adjustable to Any Thickness Up to $\frac{3}{8}$ in., Weight Per Dozen 6 $\frac{3}{4}$ Lbs. \$9.00

A substantial and efficient device which joints Saws of any thickness perfectly true and also gives excellent satisfaction as a skate sharpener.

One in a Box.

CROSS CUT SAW TOOLS

DISSTON UNIVERSAL



Raker Tooth Gauge.



Set Gauge.



Setting Block.

Jointer, Raker Tooth Gauge, Side File, Set Gauge and Setting Block Combined

Full Directions Accompany Each Set.

Universal—Weight Per Dozen Sets 15 Lbs. \$16.50
One Set in a Box.

SAW SWAGES

CONQUEROR



Natural Finished Forged Steel Body

Hardened Face, Polished Edges, Hardened Crucible Steel Jaws, Blued Steel Cap.

No. 1—5 in. Long, for Large Saws, Wt. Each 1 Lb. \$5.50
No. 2—3 $\frac{1}{2}$ in. Long, for Small Circular and Mill Saws, Not Heavier than 10 Gauge, Weight Each $\frac{3}{8}$ Lb. 4.50
No. 3—2 $\frac{3}{8}$ in. Long, for Small Circular Saws and Narrow Band Saws Not Heavier than 15 Gauge, Weight Each $\frac{1}{2}$ Lb. 3.50
No. 4—4 $\frac{1}{4}$ in. Long, for Band Saws, Weight Each 3 $\frac{1}{4}$ Lbs. 4.50

One in a Box.

CONQUEROR, PROJECTING TONGUE



Natural Finished Forged Steel Body

Hardened Face, Polished Edges, Hardened Crucible Steel Jaws, Blued Steel Cap.

No. 00—6 $\frac{3}{4}$ in. Long Over All, Projection 1 $\frac{1}{2}$ in., for Large Saws, Weight Each 1 $\frac{3}{4}$ Lbs. \$7.00
No. 0—6 in. Long Over All, Projection $\frac{1}{2}$ in., for Large Saws, Weight Each 1 $\frac{1}{2}$ Lbs. 6.00

These Swages are similar to the Regular Conqueror Swages except the Tongue extends and resting on the face of the tooth, acts as a guide to obtain the proper angle for swaging. They are used where a spread set is desired.

One in a Box.

CROSS CUT SAWS

SIMONDS



No. 13—Champion Tooth

Crescent Ground, Two Cutting Teeth to One Raker Tooth, 14 Gauge at Center of Cutting Edge, 16 Gauge at Back on Ends, 19 Gauge at Center of Back Edge.

| | | | | |
|-------------------------|--------|-------|-------|-------|
| Length, Feet | 5 | 5½ | 6 | 6½ |
| Width at Center, Inches | 6¾ | 7 | 7½ | 7¾ |
| Weight Each, Lbs. | 5¼ | 6¼ | 7½ | 8½ |
| Each, without Handles | \$9.00 | 10.00 | 11.50 | 13.00 |



No. 22—Perforated Lance Tooth

Crescent Ground, 14 Gauge at Tooth Edge, 19 Gauge at Center of Back Edge.

| | | | | |
|-------------------------|--------|-------|-------|-------|
| Length, Feet | 5 | 5½ | 6 | 6½ |
| Width at Center, Inches | 6¾ | 7 | 7½ | 7¾ |
| Weight Each, Lbs. | 5¼ | 6¼ | 7½ | 8½ |
| Each, without Handles | \$9.00 | 10.00 | 11.50 | 13.00 |



No. 200—Champion Tooth

Taper Ground, Two Cutting Teeth to One Raker Tooth, 5 Gauges thinner at Back than at Tooth Edge.

| | | | | |
|-------------------------|--------|------|------|------|
| Length, Feet | 5 | 5½ | 6 | 6½ |
| Width at Center, Inches | 5¾ | 5¾ | 5¾ | 6¼ |
| Weight Each, Lbs. | 4¼ | 5 | 6¼ | 7¼ |
| Each, without Handles | \$6.60 | 7.20 | 7.80 | 8.60 |

SIMONDS FELLING



No. 113—Champion Tooth

Crescent Ground, Medium Wide Hollow Back, Two Cutting Teeth to One Raker Tooth, 14 Gauge at Tooth Edge, 19 Gauge at Center of Back Edge.

| | | | |
|-------------------------|--------|-------|-------|
| Length, Feet | 5 | 5½ | 6 |
| Width at Center, Inches | 5¼ | 5½ | 5¾ |
| Weight Each, Lbs. | 5 | 5¼ | 5½ |
| Each, without Handles | \$9.00 | 10.00 | 11.50 |



No. 325—Perforated Lance Tooth

Crescent Ground, Four Cutting Teeth to One Raker.

| | | | | | |
|-------------------------|--------|------|------|-------|-------|
| Length, Feet | 4½ | 5 | 5½ | 6 | 6½ |
| Width at Center, Inches | 5 | 5¾ | 5¾ | 5¾ | 6¼ |
| Weight Each, Lbs. | 3¼ | 4¼ | 5 | 6¼ | 7¼ |
| Each, without Handles | \$7.75 | 8.60 | 9.60 | 11.20 | 13.00 |

SIMONDS NARROW FELLING



No. 315—Champion Tooth

Crucible Steel, Oil Tempered, Crescent Ground.

| | | | | | |
|-------------------------|--------|------|-------|-------|-------|
| Length, Feet | 4½ | 5 | 5½ | 6 | 6½ |
| Width at Center, Inches | 3½ | 3½ | 3½ | 3½ | 3½ |
| Weight Each, Lbs. | 4 | 4½ | 5 | 5½ | 6 |
| Each, without Handles | \$8.00 | 9.00 | 10.00 | 11.50 | 13.00 |

CROSS CUT SAWS

DISSTON



No. 2—Champion Tooth

Crucible Steel, 2 Gauges thinner on Back than on Tooth Edge.

| | | | | | | |
|-----------------------|--------|------|------|------|------|------|
| Length, Feet | 4 | 4½ | 5 | 5½ | 6 | 6½ |
| Width at Center, In. | 6½ | 6¾ | 7 | 7¼ | 7½ | 7¾ |
| Weight Each, Lbs. | 4 | 4½ | 5¼ | 6¼ | 7½ | 8½ |
| Each, without Handles | \$4.20 | 4.75 | 5.25 | 5.80 | 6.30 | 6.85 |



No. 2—Tenon Tooth

Crucible Steel, 2 Gauges thinner on Back than on Tooth Edge.

| | | | | | | |
|-----------------------|--------|------|------|------|------|------|
| Length, Feet | 4 | 4½ | 5 | 5½ | 6 | 6½ |
| Width at Center, In. | 6¼ | 6½ | 6¾ | 7 | 7¼ | 7½ |
| Weight Each, Lbs. | 3¾ | 4¼ | 5 | 6 | 7 | 8 |
| Each, without Handles | \$4.20 | 4.75 | 5.25 | 5.80 | 6.30 | 6.85 |



No. 2—Tuttle Tooth

Crucible Steel, 2 Gauges thinner on Back than on Tooth Edge.

| | | | | | | |
|-----------------------|--------|------|------|------|------|------|
| Length, Feet | 4 | 4½ | 5 | 5½ | 6 | 6½ |
| Width at Center, In. | 6¼ | 6¾ | 6¾ | 6¾ | 7¼ | 7¾ |
| Weight Each, Lbs. | 3¾ | 4¼ | 5 | 6 | 7 | 8 |
| Each, without Handles | \$4.20 | 4.75 | 5.25 | 5.80 | 6.30 | 6.85 |

BAY STATE NARROW



No. 210—Champion Tooth

Crucible Steel, Hollow Ground.

| | | | | | |
|-----------------------|--------|------|------|------|------|
| Length, Feet | 4½ | 5 | 5½ | 6 | 6½ |
| Width at Center, In. | 3½ | 3½ | 3½ | 3½ | 3½ |
| Weight Each, Lbs. | 4 | 4½ | 5 | 5½ | 6 |
| Each, without Handles | \$2.75 | 3.00 | 3.35 | 3.75 | 4.00 |

BAY STATE ONE MAN



No. 231—Champion Tooth

Crucible Steel, Straight Ground.

| | | | |
|--------------------|--------|------|------|
| Length, Feet | 3 | 3½ | 4 |
| Weight Each, Lbs. | 3½ | 4 | 5 |
| Each, with Handles | \$3.25 | 3.80 | 4.40 |
| Length, Feet | 4½ | 5 | 5½ |
| Weight Each, Lbs. | 5¾ | 6 | 6½ |
| Each, with Handles | \$4.80 | 5.40 | 6.00 |

DOCKING OR FRAMING SAWS

SIMONDS



With Malleable Iron Handle

Crucible Steel, Full Breasted Blade, Bevel Filed Teeth, Taper Ground Clearance.

| | |
|--|-----------|
| No. 348—30 in. Long, 18 Gauge on Cutting Edge. | Per Dozen |
| 4½ Points to the Inch, Weight Per Dozen 40 | |
| Lbs. | \$48.00 |
| One-Third Dozen in a Box. | |

HAND, RIP AND PANEL SAWS

DISSTON



No. 12—Straight Back

Extra Refined London Spring Steel, Patent Ground and Tempered, Highly Polished, Carved and Polished Applewood Handle, Brass Screws, 3 Screws in 18 to 22 in. and 4 Screws in 24 to 28 in. Saws.

| | Panel | Panel |
|------------------------|-----------|------------------|
| Length, Inches | 20 | 22 |
| Points to Inch | 9, 10, 11 | 8, 9, 10, 11, 12 |
| Weight Per Dozen, Lbs. | 18 | 20 |
| Per Dozen | \$48.50 | 53.00 |

| | Panel | Hand |
|------------------------|------------------|-----------------|
| Length, Inches | 24 | 26 |
| Points to Inch | 8, 9, 10, 11, 12 | 7, 8, 9, 10, 11 |
| Weight Per Dozen, Lbs. | 22 | 26 |
| Per Dozen | \$57.50 | 61.50 |

| | Rip | Rip | Rip |
|------------------------|---------|-------|----------|
| Length, Inches | 22 | 24 | 26 |
| Points to Inch | 6 | 6 | 5, 5½, 6 |
| Weight Per Dozen, Lbs. | 18 | 21 | 26 |
| Per Dozen | \$53.00 | 57.50 | 61.50 |

One-third Dozen in a Box.



No. 12S—Narrow, Straight Back

Ship Pattern, 6½ in. Wide at Butt, 1½ in. Wide at Point, Extra Refined London Spring Steel, Patent Ground and Tempered, Highly Polished, Carved and Polished Applewood Handle, Brass Screws.

| | Panel | Panel | Panel |
|-----------------|-----------|------------------|------------------|
| Length, Inches | 20 | 22 | 24 |
| Points to Inch | 9, 10, 11 | 8, 9, 10, 11, 12 | 8, 9, 10, 11, 12 |
| Wt. Dozen, Lbs. | 17 | 19 | 21 |
| Per Dozen | \$48.50 | 53.00 | 57.50 |

| | Hand | Rip | Rip | Rip |
|-----------------|---------------------|-------|-------|----------|
| Length, Inches | 26 | 22 | 24 | 26 |
| Points to Inch | 7, 8, 9, 10, 11, 12 | 6 | 6 | 5, 5½, 6 |
| Wt. Dozen, Lbs. | 23 | 19 | 21 | 23 |
| Per Dozen | \$61.50 | 53.00 | 57.50 | 61.50 |

One-third Dozen in a Box.



No. 16—Straight Back

Refined Crucible Steel, Patent Ground and Tempered, Full Polished, Carved and Polished Applewood Handle, 4 Brass Screws.

| | Panel | Panel | Panel | Hand |
|-----------------|-----------|--------------|--------------|-------------|
| Length, Inches | 20 | 22 | 24 | 26 |
| Points to Inch | 9, 10, 11 | 8, 9, 10, 11 | 8, 9, 10, 11 | 7, 8, 9, 10 |
| Wt. Dozen, Lbs. | 19 | 21 | 23 | 26 |
| Per Dozen | \$49.00 | 42.00 | 45.00 | 47.20 |

| | Rip | Rip | Rip |
|--------------------|---------|-------|----------|
| Length, Inches | 22 | 24 | 26 |
| Points to Inch | 6 | 6 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 21 | 23 | 26 |
| Per Dozen | \$42.00 | 45.00 | 47.20 |

One-third Dozen in a Box.

DISSTON

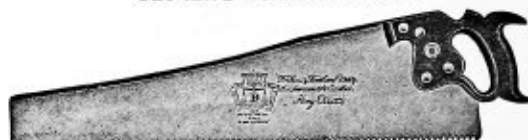


No. D15—Straight Back

Extra Refined London Spring Steel, Patent Ground and Tempered, Highly Polished, Carved and Polished Rosewood Handle, Nickel Plated Screws.

| | Hand |
|------------------------|--------------|
| Length, Inches | 26 |
| Points to Inch | 8, 9, 10, 11 |
| Weight Per Dozen, Lbs. | 27 |
| Per Dozen | \$80.00 |

One-third Dozen in a Box.

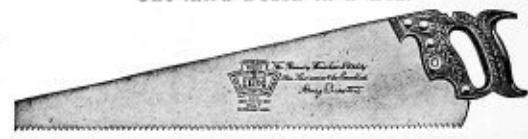


No. D8—Skew Back

Refined Crucible Steel, Patent Ground and Tempered, Highly Polished, Applewood Handle, Full Polished, 5 Brass Screws.

| | Hand | Rip |
|------------------------|-----------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Per Dozen, Lbs. | 26 | 26 |
| Per Dozen | \$47.20 | 47.20 |

One-third Dozen in a Box.



No. D23—Straight Back, Ship Carpenters

6¼ in. Wide at Butt and 1½ in. at Point. Suitable for Use where a Narrow Saw is Desired.

Refined Crucible Steel, Patent Ground and Tempered, Highly Polished, Applewood Handle Carved and Polished, 5 Brass Screws.

| | Hand | Rip |
|------------------------|-----------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Per Dozen, Lbs. | 21¾ | 21¾ |
| Per Dozen | \$52.80 | 52.80 |

One-third Dozen in a Box.



No. 7—Straight Back

Crucible Steel, Patent Ground and Tempered, Grained Blade, Beechwood Handle Polished, 4 Brass Screws. The Original Disston Saw.

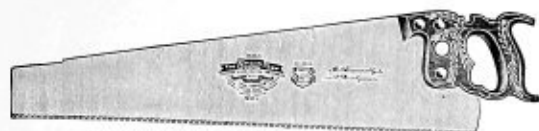
| | Panel | Panel | Panel |
|--------------------|---------|----------|----------|
| Length, Inches | 18 | 20 | 22 |
| Points to Inch | 9, 10 | 8, 9, 10 | 8, 9, 10 |
| Weight Dozen, Lbs. | 18 | 21 | 23 |
| Per Dozen | \$31.50 | 34.00 | 37.50 |

| | Panel | Hand | Rip |
|--------------------|----------|-------------|----------|
| Length, Inches | 24 | 26 | 26 |
| Points to Inch | 8, 9, 10 | 7, 8, 9, 10 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 25 | 27 | 27 |
| Per Dozen | \$39.50 | 42.00 | 42.00 |

One-third Dozen in a Box.

HAND, RIP AND PANEL SAWS

SIMONDS BLUE RIBBON



No. 61—Straight Back

Simonds Special Crucible Steel, Patent Temper, High Gloss Finish, Highly Polished Carved Applewood Handle, Brass Screws.

| | Hand | Rip |
|--------------------|-----------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 25 | 25 |
| Per Dozen | \$60.00 | 60.00 |

One-third Dozen in a Box.



No. 62—Skew Back

Simonds Special Crucible Steel, Patent Temper, High Gloss Finish, Highly Polished Carved Applewood Handle, Brass Screws.

| | Hand | Rip |
|--------------------|-----------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 24 | 24 |
| Per Dozen | \$60.00 | 60.00 |

One-third Dozen in a Box.



No. 361—Narrow Straight Back

Ship Pattern 6¼ in. Wide at Butt, 1¾ in. Wide at Point, Simonds Special Crucible Steel, Patent Temper, High Gloss Finish, Highly Polished Carved Applewood Handle, Brass Screws.

| | Hand | Rip |
|--------------------|-----------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 23 | 23 |
| Per Dozen | \$60.00 | 60.00 |

One-third Dozen in a Box.



No. 362—Narrow Skew Back

Ship Pattern, 6¼ in. Wide at Butt, 1¾ in. Wide at Point, Simonds Special Crucible Steel, Patent Temper, High Gloss Finish, Highly Polished Carved Applewood Handle, Brass Screws.

| | Hand | Rip |
|--------------------|-----------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 22 | 22 |
| Per Dozen | \$60.00 | 60.00 |

One-third Dozen in a Box.

SIMONDS BLUE RIBBON



No. 71—Straight Back

Simonds Special Crucible Steel, Patent Temper Polished, Carved Applewood Handle with Carved Grip, Brass Screws.

| | Hand | Rip |
|--------------------|-----------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 26 | 26 |
| Per Dozen | \$45.00 | 45.00 |

One-third Dozen in a Box.



No. 72—Skew Back

Simonds Special Crucible Steel, Patent Temper Polished, Carved Applewood Handle with Carved Grip, Brass Screws.

| | Hand | Rip |
|--------------------|-----------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 25 | 25 |
| Per Dozen | \$45.00 | 45.00 |

One-third Dozen in a Box.



No. 371—Narrow Straight Back

Ship Pattern, 6¼ in. Wide at Butt, 1¾ in. Wide at Point, Simonds Crucible Steel, Patent Temper, Polished, Applewood Handle with Carved Grip, Brass Screw.

| | Hand | Rip |
|--------------------|--------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 23 | 23 |
| Per Dozen | \$45.00 | 45.00 |

One-third Dozen in a Box.



No. 372—Narrow Skew Back

Ship Pattern, 6¼ in. Wide at Butt, 1¾ in. Wide at Point, Simonds Special Crucible Steel, Patent Temper, Polished Applewood Handle with Carved Grip, Brass Screws.

| | Hand | Rip |
|--------------------|--------------|----------|
| Length, Inches | 26 | 26 |
| Points to Inch | 8, 9, 10, 11 | 5, 5½, 6 |
| Weight Dozen, Lbs. | 22 | 22 |
| Per Dozen | \$45.00 | 45.00 |

One-third Dozen in a Box.

HAND, RIP AND PANEL SAWS

SIMONDS



No. 10—Straight Back, Medium Width

Special Crucible Steel, Patent Tempered, Full Taper Ground Blade, Polished Beechwood Handle, Brass Screws. 5 $\frac{1}{16}$ in. Wide at Butt, 2 in. Wide at Point.

| | Panel | Panel | Hand |
|--------------------|--------------|--------------|--------------|
| Length, Inches | 22 | 24 | 26 |
| Points to Inch | 8, 9, 10, 11 | 8, 9, 10, 11 | 8, 9, 10, 11 |
| Weight Dozen, Lbs. | 20 | 22 | 24 |
| Per Dozen | \$36.00 | 38.00 | 40.00 |

| | Rip | Rip | Rip |
|--------------------|---------|-------|------------------------|
| Length, Inches | 22 | 24 | 26 |
| Points to Inch | 6 | 6 | 5, 5 $\frac{1}{2}$, 6 |
| Weight Dozen, Lbs. | 20 | 22 | 24 |
| Per Dozen | \$36.00 | 38.00 | 40.00 |

One-third Dozen in a Box.

No. 10 $\frac{1}{2}$ —Skew Back

Special Crucible Steel, Patent Temper, Full Taper Ground Blade, Polished Beechwood Handle, Brass Screws.

| | Panel | Panel | Hand |
|--------------------|--------------|--------------|--------------|
| Length, Inches | 22 | 24 | 26 |
| Points to Inch | 8, 9, 10, 11 | 8, 9, 10, 11 | 8, 9, 10, 11 |
| Weight Dozen, Lbs. | 21 | 23 | 25 |
| Per Dozen | \$38.00 | 40.00 | 42.00 |

| | Rip | Rip | Rip |
|--------------------|---------|-------|------------------------|
| Length, Inches | 22 | 24 | 26 |
| Points to Inch | 6 | 6 | 5, 5 $\frac{1}{2}$, 6 |
| Weight Dozen, Lbs. | 21 | 23 | 25 |
| Per Dozen | \$38.00 | 40.00 | 42.00 |

These saws are in quality and finish of steel and handle the highest value for the moderate price, and will appeal especially to the amateur mechanic, the manual training student or the worker on the farm or at the home shop.

One-third Dozen in a Box.

SIMONDS HOME AND FARM



No. 44—Skew Back

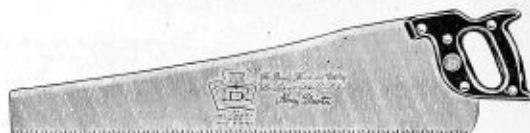
Spring Tempered Steel Blade, Ground and Tempered, Nicely Polished, Carved Birch Handle, Four Screws.

| | Hand |
|------------------------|---------|
| Length, Inches | 24 |
| Points to Inch | 7, 8 |
| Weight Per Dozen, Lbs. | 22 |
| Per Dozen | \$26.00 |

One-half Dozen in a Box.

HAND, RIP AND PANEL SAWS

NEW DISSTON



No. D18—Skew Back, with New Disstonite Handle

Highly Polished Refined Spring Steel, Unbreakable Waterproof Handle Fastened to Blade with 6 Brass Screws and Lock Washers.

| | Hand | Rip |
|----------------|-----------------|------------------------|
| Length, Inches | 26 | 26 |
| Points to Inch | 7, 8, 9, 10, 11 | 5, 5 $\frac{1}{2}$, 6 |
| Each | \$4.50 | 4.50 |

Weight Each 2 $\frac{1}{2}$ Pounds.

The Disstonite Handle is stronger than any other ever used—practically unbreakable. It cannot warp, crack or check, and it is always tight on the blade. It is scientifically fitted to the hand and is not affected by water or oil. It has a beautiful permanent finish.

One in a Box.

VULCAN



No. 655—Narrow, Skew Back

Cast Steel, Patent Ground and Tempered, Full Polished, Varnished and Carved Applewood Handle, 4 Brass Screws, Blade 6 $\frac{1}{2}$ in. Wide at Butt, 1 $\frac{1}{2}$ in. at Point.

| | Panel | Panel | Panel |
|------------------------|----------|----------|----------|
| Length, Inches | 20 | 22 | 24 |
| Points to Inch | 8, 9, 10 | 8, 9, 10 | 8, 9, 10 |
| Weight Per Dozen, Lbs. | 16 | 18 | 20 |
| Per Dozen | \$19.00 | 20.00 | 21.00 |

| | Hand | Rip | Rip |
|------------------------|-------------|-------|------------------------|
| Length, Inches | 26 | 24 | 26 |
| Points to Inch | 7, 8, 9, 10 | 6 | 5, 5 $\frac{1}{2}$, 6 |
| Weight Per Dozen, Lbs. | 22 | 20 | 22 |
| Per Dozen | \$22.00 | 21.00 | 22.00 |

One-half Dozen in a Box.

PONTIAC



No. 50—Straight Back

Cast Steel, Varnished Edge Beech Handle, 3 Brass Screws.

| | Panel | Hand |
|------------------------|------------------|---------|
| Length, Inches | 20 | 26 |
| Points to Inch | 7, 8, 9 | 7, 8, 9 |
| Weight Per Dozen, Lbs. | 16 $\frac{1}{2}$ | 22 |
| Per Dozen | \$13.00 | 15.50 |

One-half Dozen in a Box.

FLOORING SAWS

DISSTON



Adjustable

Polished Crucible Steel Blade, Carved and Polished Cherry Handle, Adjustable Handle, Wing Screw.

| | Per Dozen |
|---|-----------|
| No. D19—18 in. Blade, Weight Each 1 Lb. | \$46.20 |

Designed to cut out section of floor, partition or ceiling without boring holes, chiseling, etc.

One-third Dozen in a Box.

BACK SAWS

DISSTON

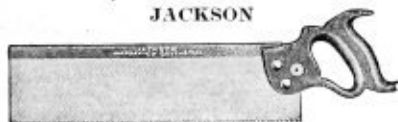
**No. 4—Best Crucible Steel Blade**

Blued Steel Back, Applewood Handle with Polished Edges, Brass Screws.

| | | | | | |
|--------------------|---------|-------|-------|-------|-------|
| Length, Inches... | 10 | 12 | 14 | 16 | 18 |
| Wt. Dozen, Lbs.... | 12 | 14 | 18 | 22 | 26 |
| Per Dozen | \$32.25 | 36.50 | 41.50 | 46.00 | 50.00 |

One-third Dozen in a Box.

JACKSON

**No. 1—Cast Steel Blade**

Blued Steel Back, Beechwood Handle with Polished Edges, Brass Screws.

| | | | | | |
|--------------------|---------|-------|-------|-------|-------|
| Length, Inches... | 10 | 12 | 14 | 16 | 18 |
| Wt. Dozen, Lbs.... | 12 | 14 | 18 | 22 | 26 |
| Per Dozen | \$23.00 | 27.50 | 32.25 | 36.50 | 41.50 |

One-third Dozen in a Box.

SIMONDS

**No. 97—Crucible Steel Blade**

Blued Steel Blade, Beechwood Handle with Polished Edges, Brass Screws.

| | | | | | |
|-----------------------|---------|-------|-------|-------|-------|
| Length, Inches..... | 10 | 12 | 14 | 16 | 18 |
| Weight Dozen, Lbs.... | 12 | 14 | 18 | 22 | 26 |
| Per Dozen | \$27.50 | 31.50 | 33.50 | 40.00 | 47.00 |

One-third Dozen in a Box.

MITRE BOX SAWS

DISSTON

**No. 4M—Crucible Steel Blade**

Blued Steel Back, Applewood Handle with Polished Edges, Three Brass Screws, 11 Points to the Inch.

| | | | | | |
|------------------------|---------|--------|--------|-------|-------|
| Length, Inches..... | 20 | 22 | 24 | 26 | 28 |
| Width Blade, Inches... | 4 | 4 | 4 | 4 | 5 |
| Weight Dozen, Lbs.... | 32 1/2 | 34 1/4 | 37 1/4 | 41 | 47 |
| Per Dozen | \$55.00 | 60.00 | 64.00 | 69.50 | 74.00 |

One-third Dozen in a Box.

BACK SAWS FOR METAL

DISSTON

**No. 440—For Cutting Iron and Steel**

Special Tempered Steel Blades, Heavy Steel Back, Applewood Handle, Brass Screws. 12 Points to the inch.

| | | | | | |
|------------------------|---------|-------|-------|-------|-------|
| Size Blade, Inches.... | 20x4 | 22x4 | 24x4 | 24x5 | 28x5 |
| Weight Dozen, Lbs.... | 29 | 34 | 36 | 40 | 46 |
| Per Dozen..... | \$62.00 | 68.00 | 72.00 | 82.00 | 94.00 |

One-third Dozen in a Box.

CABINET SAWS

DISSTON

No. 80—Nickel Plated Lever Tightener

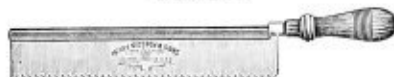
Crucible Steel Blade, One Edge 10 Points for Cutting Grain, Other Edge 15 Points for Cross Cutting, 3/8 in. Hole in End for Hanging Up, Cherry Wood Handle, Blade 3 1/2 in. Wide.

| | |
|-----------------------|---------|
| Length, Inches | 12 |
| Weight Dozen, Lbs.... | 12 |
| Per Dozen | \$10.50 |

One-third Dozen in a Box.

DOVETAIL SAWS

DISSTON

**No. 68—Spring Steel Blade**

17 Points to the Inch, Brass Plated Steel Back, Polished Wood Handle, 1 1/2 in. Wide Under Back.

| | | |
|---------------------------|---------|-------|
| Length, Inches | 6 | 8 |
| Weight Per Dozen, Lbs.... | 7 | 9 |
| Per Dozen | \$18.00 | 20.00 |

No. 69—For Metal

Same as No. 68, except specially tempered, for cutting brass, copper and other soft metals.

| | | |
|----------------------|---------|-------|
| Length, Inches | 6 | 8 |
| Per Dozen | \$20.00 | 21.50 |

One-sixth Dozen in a Box.

PATTERNMAKERS SAWS

DISSTON

**Designed for Fine Smooth Work**

Cast Steel Blade, 15 Points to the Inch, Plain Applewood Handle, Two Brass Screws.

| | |
|--|---------|
| No. 1P—7 1/2 x 1 1/4 in. Blade, Weight Per Dozen 4 3/4 Lbs. | \$20.50 |
|--|---------|

One in a Box.

STAIR BUILDERS SAWS

DISSTON

Adjustable for Various Depths of Cut
Beech Handle, Varnished Edges, Crucible Steel Blade.

| | |
|---|---------|
| No. 0—6x1 1/2 in. Blade, 20 Gauge, 8 Points, Weight Each 12 Ozs. | \$13.50 |
|---|---------|

One-half Dozen in a Box.

METAL CUTTING SAWS

BISHOP

**With Adjustable Handle**

High Grade Steel Specially Tempered for Cutting Nails, etc., as well as Wood.

| | |
|--|---------|
| No. 78—20 in. Blade, Weight Per Dozen 14 Lbs. | \$40.00 |
|--|---------|

One-third Dozen in a Box.

NESTS OF SAWS

DISSTON



With Interchangeable Blades

Per Dozen Nests

No. 3 Nest—Consists of One 10 in. Keyhole Blade, One 14 in. Compass Blade and One 16 in. Pruning Blade and Beechwood Handle with Nickel Plated Tightening Lever, Weight Per Dozen Nests 12 Lbs. \$28.00

EXTRA PARTS

Per Dozen

10 in. Keyhole Blades.....\$ 5.50
14 in. Compass Blades.....6.00
16 in. Pruning Blades.....12.00
Handle, Complete.....4.00

One-quarter Dozen Nests in a Box.

SIMONDS



With Interchangeable Blades

Per Dozen Nests

No. 84 Nest—Consists of One 10 in. Keyhole Blade, One 14 in. Compass Blade, One 16 in. Pruning Blade and Beechwood Handle, with Tightening Lever, Weight Per Dozen Nests 10 Lbs. \$28.00
One-quarter Dozen Nests in a Box.

EXTRA PARTS

Per Dozen

10 in. Keyhole Blade.....\$ 5.50
14 in. Compass Blade.....6.00
16 in. Pruning Blade.....12.00
Handle, Complete.....4.00

JENNINGS



With Interchangeable Blades

Per Dozen Nests

No. 014 Nest—Consists of One 12 in. Keyhole Blade, One 14 in. Compass Blade, One 14 in. Panel Blade and Beechwood Handle with Thumb Nut Tightener, Weight Per Dozen Nests 12 Lbs. \$15.00
One-half Dozen Nests in a Box.

DISSTON PLUMBERS



With Metal Cutting Blade

Per Dozen Nests

No. 60 Nest—Consists of One 10 in. Keyhole Blade, One 14 in. Compass Blade, One 18 in. Metal Cutting Blade and Beechwood Handle with Nickel Plated Tightening Lever, Weight Per Dozen Nests 15 Lbs. \$32.00
One-quarter Dozen Nests in a Box.

EXTRA PARTS

Per Dozen

10 in. Keyhole Blade.....\$ 5.25
14 in. Compass Blade.....6.00
14 in. Plumbers' Blade.....7.50
16 in. Pruning Blade.....12.00
18 in. Metal Cutting Blade.....15.00
Handle, Complete.....4.00

COMPASS SAWS

DISSTON INTERCHANGEABLE



No. 4—With Nickel Plated Tightening Lever

Crucible Steel Blade, Applewood Handle.

| Length Blade, Inches... | 10 | 12 | 14 | 16 |
|-------------------------|--------|------|-------|-------|
| Weight Per Dozen, Lbs. | 5 1/2 | 6 | 6 1/2 | 7 |
| Per Dozen | \$9.00 | 9.50 | 10.00 | 10.50 |
| Extra Blades, Dozen | 5.25 | 5.50 | 6.00 | 6.50 |

Saws, One-quarter Dozen in a Box; Blades, One-half Dozen in a Box.

DISSTON



No. 2—Crucible Steel Blade, Applewood Handle, 2 Brass Screws

| Length Blade, Inches... | 10 | 12 | 14 | 16 |
|-------------------------|--------|-------|-------|-------|
| Weight Dozen, Lbs. | 5 | 5 1/2 | 6 | 6 1/2 |
| Per Dozen | \$9.50 | 9.75 | 10.25 | 10.50 |

One-half Dozen in a Box.

RAY STATE



No. 94—Cast Steel Blade, Hardwood Handle, Steel Screws

| Length Blade, Inches... | 12 | 14 |
|-------------------------|--------|------|
| Weight Per Dozen, Lbs. | 5 1/2 | 6 |
| Per Dozen | \$4.25 | 4.25 |

One-half Dozen in a Box.

SIMONDS



No. 87—Crucible Steel Blade, Applewood Handle, Two Brass Screws

| Length Blade, Inches... | 12 | 14 |
|-------------------------|---------|-------|
| Weight Per Dozen, Lbs. | 5 1/2 | 6 |
| Per Dozen | \$10.00 | 10.50 |

One-half Dozen in a Box.

SIMONDS IMPROVED



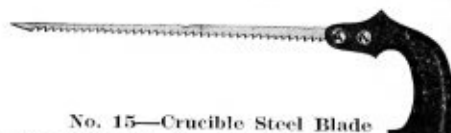
No. 116—Crucible Steel Blade, Carved Applewood Handle, Two Brass Screws

| Length Blade, Inches... | 12 | 14 |
|-------------------------|---------|-------|
| Weight Per Dozen, Lbs. | 6 | 6 1/2 |
| Per Dozen | \$10.50 | 11.50 |

One-half Dozen in a Box.

KEYHOLE SAWS

DISSTON



No. 15—Crucible Steel Blade

Beechwood Handle, Varnished Edges, Two Brass Screws, Filed and Set.

| Length Blade, Inches... | 12 | 14 |
|-------------------------|--------|------|
| Weight Per Dozen, Lbs. | 4 1/2 | 5 |
| Per Dozen | \$6.00 | 6.50 |

One-half Dozen in a Box.

KEYHOLE SAWS AND PADS



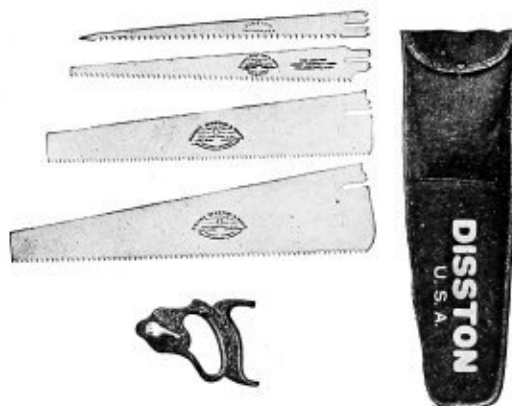
Japanned Iron Handle, Cast Steel Blade

Reversible Blade, Butt End of Blade forms a Screw-driver.

| | Per Dozen |
|--|-----------|
| No. 5—Complete, 7 in. Blade, 4 3/4 in. Handle, Weight Each 3 1/2 Oz. | \$5.50 |
| No. 5B—Blade Only, 7 in. Long. | 3.00 |
| No. 5H—Handle Only, 4 3/4 in. Long. | 2.50 |
| One Dozen in a Box. | |

HANDY SAW KITS

DISSTON



For Plumbers Use

High Grade Crucible Steel Blades. The Plumbers' Saw Blade is specially tempered for cutting nails, bolts, gas pipe, soil pipe, etc. Put up in a durable canvas bag having strong bound edges, and containing separate compartments for each blade with a special pocket for the handle. Convenient and light to carry.

| | Per Set |
|--|---------|
| No. 201 Kit—Consists of One 14 in. Compass Blade, One 16 in. Special Metal Blade, One 18 in. Plumbers' Blade, One 20 in. 10 Point Cross Cut Wood Saw Blade and One Adjustable Handle, Weight Per Set 22 Lbs. | \$7.50 |

JENNINGS



A Handy Household Set

Steel Blades Hardened, Tempered and Filed.

| | Per Set |
|--|---------|
| No. 1 Set—Consists of One 12 in. Compass Blade, One 10 in. Mitre Blade, One 16 in. Cross Cut Wood Blade and One Adjustable Handle, Weight Per Set 1 1/4 Lbs. | \$2.00 |
| One Set in a Box. | |

COPING SAWS

ATKINS



Adjustable to All Angles

Nickel Plated, Cold Rolled Steel Back, Varnished Hardwood Handle, Complete with One Blade.

| | Per Dozen |
|---|-----------|
| No. 19—3/8 x 3/16 in. Steel Back, Length of Frame 7 1/4 in. Depth from Blade to Back 4 3/4 in., Weight Per Dozen 7 Lbs. | \$7.50 |
| One-half Dozen in a Box. | |

EXTRA BLADES FOR No. 50 COPING SAW



Bright Steel, Tempered and Sharpened

| | Per Dozen |
|---|-----------|
| No. 60—6 in. Long, 1/8 in. Wide, Pin Ends, Weight Per Dozen 1 1/2 Oz. | \$0.40 |
| One Dozen in a Bundle, One Gross in a Box. | |

Nickel Plated Steel Wire Frame and Handle

| | Per Dozen |
|---|-----------|
| No. 100—6 in. Frame, 4 in. Deep, Handle 4 in. Long, Complete with 1 Dozen 6 in. Bent End Blades, Wt. Dozen 4 1/2 Lbs. | \$3.00 |
| One-half Dozen in a Box. | |



EXTRA BLADES FOR No. 100 COPING SAW

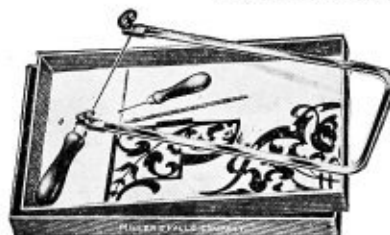


| | Per Gross |
|---|-----------|
| No. 50—6 in. Long, Blued Steel, Tempered and Sharpened, Bent Ends, Weight Per Gross 4 Oz. | \$2.00 |
| One Dozen in a Bundle, One Gross in a Box. | |

FRET SAW SETS

MILLERS FALLS

Nickel Plated

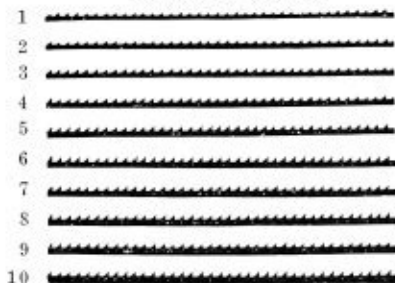


Spring Steel Frame, Enamelled Wood Handle, Patent Clamps which hold blades securely. Set consists of Saw Frame, 12 Blades, 1 Awl, 1 Sheet Impression Paper and 3 Sheets of Designs.

| | Per Set |
|---|---------|
| No. 2—12 in. Deep, 5 in. Wide, Weight Each 17 Oz. | \$1.50 |
| One Set in a Box. | |

FRET SAW BLADES

MILLERS FALLS



For Wood Work, 5 in. Long

Cut Fast, Smooth and are of Uniform Quality.

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|-----------|--------|------|------|------|------|------|
| Per Gross | \$1.70 | 1.70 | 1.70 | 1.80 | 1.80 | 1.80 |
| Nos. | 7 | 8 | 9 | 10 | 11 | 12 |
| Per Gross | \$1.90 | 1.90 | 1.90 | 2.00 | 2.00 | 2.00 |

SCROLL SAWS



MILLERS FALLS

With Emery Wheel and Drill Chuck

Two Balance Wheels, one each of Iron and Emery. Arms swing on Pivots in Supporting Casting Giving Free Action and are Adjustable so they can be kept Parallel. Cast Iron Frame, Steel Arbors, Selected Ash Wood Arm and Pitman, Japanned Tilting Table.

Each

No. 387—37 in. High, Depth of Arms 18 in., Capacity Up to $\frac{3}{8}$ in. Wood, Weight Boxed 60 Lbs. \$17.75

WOOD LATHE AND SAW

MILLERS FALLS-GOODSELL

For Amateur Work

Five in. Swing, 14 in. Between Centers, Two Grooves on Drive Wheel Cone Pulley Permits a change of Speed. Head has 2 in. Face Plate and Spur Center and Screw Center for Turning Cups. Tail Stock has Screw Feed and can be Clamped at Any Point. Equipped with Drill Spindle with 3 Jaw Chuck. Capacity 0 to $\frac{1}{4}$ in., Short Tool Rest, Emery Wheel 4x $\frac{3}{4}$ in., Five Turning Tools, Wrench and Drill Points.

Each

No. 321—With Fret and Circular Saw Attachment, Net Weight 60 Lbs. \$32.50

TURNING OR WEB SAW BLADES

Set and Sharpened, Ready for Use

8 in. Long, 22 Gauge

| | | | |
|-----------------|---------------|----------------|---------------|
| Width, Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ |
| Points Per Inch | 10 | 10 | 9 |
| Per Dozen | \$2.60 | 2.60 | 2.60 |

10 in. Long, 22 Gauge

| | | | |
|-----------------|---------------|----------------|---------------|
| Width, Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ |
| Points Per Inch | 10 | 10 | 9 |
| Per Dozen | \$2.80 | 2.80 | 2.80 |

12 in. Long, 21 Gauge

| | | | |
|-----------------|---------------|----------------|----------------|
| Width, Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ |
| Points Per Inch | 10 | 9 | $7\frac{1}{2}$ |
| Per Dozen | \$3.00 | 3.00 | 3.00 |

14 in. Long, 21 Gauge

| | | | |
|-----------------|---------------|----------------|----------------|
| Width, Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ |
| Points Per Inch | 10 | 8 | $7\frac{1}{2}$ |
| Per Dozen | \$3.20 | 3.20 | 3.20 |

16 in. Long, 20 Gauge

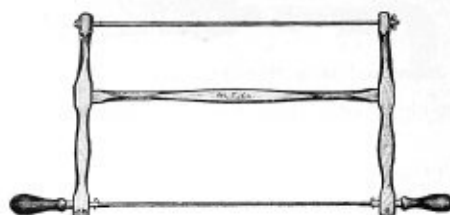
| | | | |
|-----------------|---------------|----------------|----------------|
| Width, Inches | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ |
| Points Per Inch | 10 | 8 | $7\frac{1}{2}$ |
| Per Dozen | \$3.60 | 3.60 | 3.60 |

18 in. Long, 20 Gauge

| | | | | |
|-----------------|---------------|----------------|----------------|---------------|
| Width, Inches | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Points Per Inch | 8 | $7\frac{1}{2}$ | $7\frac{1}{2}$ | 7 |
| Per Dozen | \$4.00 | 4.00 | 4.00 | 4.00 |

TURNING SAW FRAMES

MILLERS FALLS



No. 357—Birchwood Frame, Ebonized Handles

Steel Extension Rod, Complete with Blade $\frac{1}{8}$ in. Wide.

| | | |
|----------------------|----------------|----------------|
| Length Blade, Inches | 14 | 18 |
| Weight Each, Lbs. | $1\frac{3}{8}$ | $1\frac{3}{8}$ |
| Each | \$1.70 | 1.80 |

One in a Box.

WOOD SAWS

SIMONDS



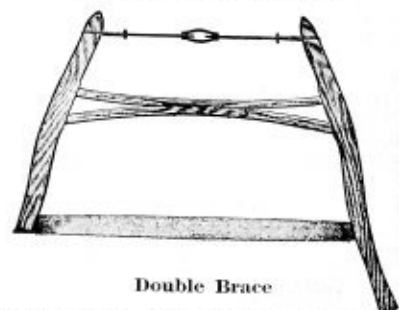
Single Brace

Red Painted Frame, Plain Rod, Polished Blade, Plain Tooth.

Per Dozen

No. 107—30 in. Blade, 2 in. Wide, Weight Per Dozen 52 Lbs. \$17.50

One-half Dozen in a Box.



Double Brace

Red Painted and Varnished Double Riveted Frame, Tinned Rod, Thin Back Polished Blade, Plain Tooth.

Per Dozen

No. 105—30 in. Blade, 2 $\frac{1}{2}$ in. Wide, Weight Per Dozen 56 Lbs. \$22.50

One-half Dozen in a Box.

WOOD SAW BLADES



Straight Breast, Plain Tooth

Bright Steel, Sharpened and Set, 4 $\frac{1}{2}$ Points to the Inch.

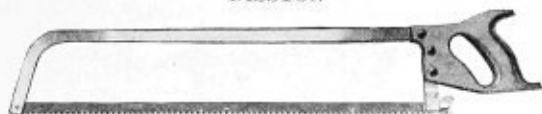
Per Dozen

No. 410—30 in. Long, 2 in. Wide, Weight Per Dozen 6 Lbs. \$6.00

One Dozen in a Box.

BUTCHERS SAWS

DISSTON



No. 70—Flat Back

Polished Steel Frame, Steel Screws, Beechwood Handle, Polished Edge, Blued Steel Blade.

| | | | | | |
|-------------------|---------|-------|-------|-------|-------|
| Length Blade, In. | 18. | 20 | 22 | 24 | 26 |
| Wt. Dozen, Lbs. | 24 | 27 | 30 | 33 | 36 |
| Per Dozen..... | \$20.50 | 21.50 | 22.50 | 24.00 | 26.00 |

One-third Dozen in a Box.

KITCHEN SAWS

STANDARD



No. 0—Round Back

Polished Steel Frame, Bright Blade $\frac{3}{4}$ in. Wide.

| | |
|------------------------|--------|
| Length, Inches | 16 |
| Weight Per Dozen, Lbs. | 17 |
| Per Dozen | \$8.50 |

One-half Dozen in a Box.

CHALLENGE



No. 12—Flat Back

Polished Steel Frame, Bright Steel Blade Beechwood Handle, Two Screws.

| | |
|------------------------|--------|
| Length, Inches | 14 |
| Weight Per Dozen, Lbs. | 15 |
| Per Dozen | \$7.25 |

One-half Dozen in a Box.

BUTCHERS SAW BLADES

IN COILS

Cast Steel, Blued



Set ready for use, 11 Points to the Inch.

| | |
|---------------|---------------|
| Width, Inches | $\frac{3}{4}$ |
| Per Foot | \$0.20 |

Weight Per Coil 2 Pounds.

Twenty-five Feet in a Coil.

SAW PUNCHES

MIDGET



For Punching Holes in Butcher Saw Blades, etc., Not Heavier than 22 Gauge

Malleable Iron Frame and Handle, Nicely Finished Steel Lever and Screw, Hardened Steel Die and Punch.

| | | |
|------------------|-----------------|-----------------|
| Nos. | 1 | 2 |
| Length, Inches | 6 $\frac{1}{2}$ | 6 $\frac{1}{2}$ |
| Weight Each, Oz. | 14 | 8 |
| Each | \$1.50 | 1.00 |

One in a Box.

PRUNING SAWS

YORK STATE



Perfect Temper, Superior Quality

Narrow Crucible Steel Blade, Beechwood Handle, Varnished Edges, Two Brass Screws and Medallion.

| | |
|---|-------------------|
| No. 63—20 in. Long, 5 in. wide at Butt, 1 in. Wide at Point, 7 Points to the Inch, Weight Per Dozen 15 Lbs. | Per Dozen \$20.00 |
|---|-------------------|

One-third Dozen in a Box.

DISSTON DUPLEX



No. 4—Double Edge

Crucible Steel Blade, Beechwood Handle, Polished Edges, 3 Brass Screws.

| | | |
|------------------------|---------|-------|
| Length, Inches | 18 | 20 |
| Weight Per Dozen, Lbs. | 12 | 13 |
| Per Dozen | \$23.00 | 24.50 |

One-third Dozen in a Box.

AVERY DUPLEX



No. 40—Double Edge

Cast Steel Blade, Beechwood Handle, 3 Brass Screws.

| | | |
|------------------------|---------|-------|
| Length, Inches | 18 | 20 |
| Weight Per Dozen, Lbs. | 12 | 13 |
| Per Dozen | \$15.00 | 16.00 |

One-third Dozen in a Box.

PRUNING HOOK AND SAW

LITTLE GIANT



Can be Used with or without Pole

Crucible Steel Knife and Saw. The Saw can be Detached when not in Use. The Hook will Take a Branch $\frac{3}{4}$ in. Diameter.

| | |
|--|-------------------|
| No. 100—Hook and Saw, 12 in. Blade, without Pole, Weight Per Dozen 21 Lbs. | Per Dozen \$36.50 |
| No. 100H—Hook Only, without Pole | 27.00 |

The saw-blade is attached to the hook by means of two clamp-screws as shown in the cuts, which also show the method of attaching a pole or handle.

One-sixth Dozen in a Box.

CROSS-CUT SAW HANDLES

CLIMAX



Reversible

Hardwood, Gray Iron Castings, Malleable Iron Bolt and Nut.

No. 103—13½ in. Long, 1¼ in. Diameter, Weight Per Pair 1¼ Lbs. \$0.60

Open Stock.

LOOP

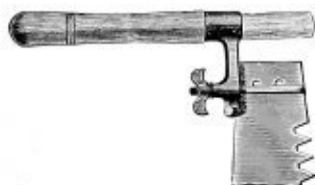


Hardwood, Malleable Iron Washer, Ferrule, Loop Rod and Inside Nut.

No. 108—10¾ in. Long from Top of Handle to Bottom of Washer, 1¾ in. Diameter, Weight Per Pair 1½ Lbs. \$0.50

Open Stock.

REVERSIBLE



Double Grip

Hardwood, Heavy Malleable Iron Castings, Loop Rod.

No. 113—14½ in. Long, 1½ in. Diameter, Weight Per Pair 2 Lbs. \$1.00

Open Stock.

ONE MAN



Beechwood, Varnished Edges

No. 218—Weight Per Dozen 6¼ Lbs. \$4.00

One Dozen in a Box.

SUPPLEMENTARY



Seasoned Hardwood Stock

Steel Ferrule and Socket, Malleable Iron Bolt.

No. 118—5¼ in. Long, 1½ in. Diameter, Weight Per Dozen 3½ Lbs. \$3.00

One Dozen in a Box.

HAND SAW HANDLES

COMMON



For Panel, Hand or Rip Saws

When ordering, always state length of saw for which the handle is required.

No. 66—Beechwood, Slit Only. \$3.50

One Dozen in a Box.

DISSTON



For Panel, Hand or Rip Saws

When ordering, always state length of saw for which the handle is required.

No. 7—Beechwood, Slit Only, for No. 7 Disston Saws \$ 7.50

No. D8—Applewood, Bored and Slit for No. D8 Disston Saws 10.50

No. 12—Applewood, Carved, Bored and Slit for No. 12 Disston Saws 15.50

No. 16—Applewood, Carved, Bored and Slit for No. 16 Disston Saws 11.50

No. D23—Applewood, Carved, Bored and Slit, for No. D23 Disston Saws 11.50

One Dozen in a Box.

SAW SCREWS



No. 1.



No. 2.



Nos. 3 and 4.

For Panel, Hand or Rip Saw Handles.

No. 1—Centennial, Brass, ½ in. Diameter Head . . . \$0.50

No. 2—Centennial, Brass, ¾ in. Diameter Head55

No. 3—Small Superior, Brass, ¾ in. Diameter Head . .75

No. 4—Large Superior, Brass, 1 in. Diameter Head . .85

One Dozen in a Box.

ARBORS

SAW OR GRINDING WHEEL



Tool Steel, Polished

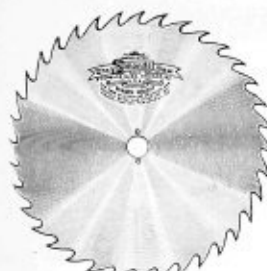
Convenient for Holding Grinding Wheels or Saws in Lathe.

| Nos. | 321 | 322 | 323 | 324 |
|-------------------------------|--------|------|------|------|
| Length, Inches | 4 | 4 ¾ | 7 | 10 |
| Diameter, Inches | ¾ | 1 ½ | ¾ | 1 |
| Opening Between Flanges, In. | 1 ½ | 1 ½ | ¾ | 1 |
| Diameter Between Flanges, In. | ¾ | 1 ½ | 1 ½ | ¾ |
| Each | \$1.00 | 1.00 | 1.40 | 3.30 |

One in a Box.

CIRCULAR SAWS

SIMONDS SOLID TOOTH



Filed and Set Ready for Use,
Patent Ground and
Tempered

When ordering Circular Saws, state if Cross Cut or Rip, also Diameter in inches and size of Mandrel Hole.

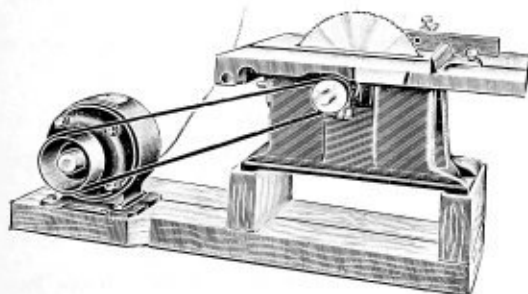
All sizes less than 6 in. diameter take list of 6 in. saw. Sizes listed are standard Stock Saws, other sizes or gauges furnished to order.

| | | | | | |
|-------------------|--------|------|-------|-------|-------|
| Diameter, Inches. | 6 | 8 | 10 | 12 | 14 |
| Thickness, Gauge | 18 | 18 | 16 | 15 | 14 |
| Hole, Inches.... | 3/4 | 7/8 | 1 | 1 | 1 1/4 |
| Wt. Each, Lbs.... | 3/4 | 7/8 | 1 1/2 | 2 1/2 | 3 1/2 |
| Each | \$3.30 | 4.40 | 5.60 | 7.00 | 8.50 |

| | | | | | |
|-------------------|---------|-------|-------|-------|-------|
| Diameter, Inches. | 16 | 18 | 20 | 22 | 24 |
| Thickness, Gauge | 14 | 13 | 13 | 12 | 11 |
| Hole, Inches.... | 1 1/4 | 1 1/4 | 1 1/2 | 1 1/2 | 1 3/4 |
| Wt. Each, Lbs.... | 4 1/2 | 6 | 7 | 10 | 13 |
| Each | \$10.50 | 12.50 | 15.00 | 17.50 | 20.50 |

BENCH SAWS

TOBRIN



Motor Driven

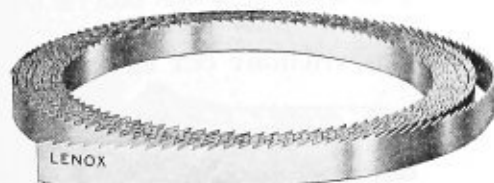
Designed for ripping, cross cutting and mitering stock up to 2 1/2 in. thick. The table elevates for grooving and may be tilted to 10 degrees for beveling. Equipped with 8 in. Combination Saw, Endless Belt, 1/4 H. P. Motor, 10 ft. of Cord and Attachment Plug.

No. ST—2 1/2 in. Depth Cut, Motor Speed 1750 R. P. M., Saw Speed 4500 R. P. M., Height of Machine 7 in. to Top of Table, Base 6 1/2 x 13 1/2 in., Table 14 x 16 in., Weight 85 Lbs. \$60.00

Each

BAND SAWS

LENOX WOOD CUTTING



Punched, Filed and Set

| | | | | | | | |
|----------------------|--------------|-------|-----|-------|-----|-----|-------|
| Width, Inches... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
| Gauge | 22 | 22 | 21 | 21 | 21 | 21 | 20 |
| Points Per Inch. | 6 | 5 1/2 | 5 | 4 1/2 | 4 | 4 | 3 1/2 |
| Per Foot..... | \$0.13 | .14 | .15 | .16 | .18 | .20 | .22 |
| Brazing, Extra | Each, \$0.50 | | | | | | |

BAND SAWS

LENOX METAL CUTTING



Flexible Back, with Hardened Teeth

The Teeth require no filing and will cut until worn dull. Furnished 8, 10, 12, 14, 18, 24 and 32 teeth to the inch.

| | | | | | | |
|-----------------------|--------|------|------|------|------|------|
| Width, Inches..... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
| Thickness, Inches.... | .025 | .025 | .025 | .032 | .032 | .035 |
| Gauge Nos. | 23 | 23 | 23 | 21 | 21 | 20 |
| Feet Per Lb..... | 60 | 35 | 25 | 16 | 12 | 9 |
| Per Foot | \$0.07 | .08 | .09 | .11 | .13 | .16 |

Brazing, Extra

Each, \$0.50

Special Flexible Back for Bronze

Designed in such a manner as to possess an unusually Keen Tooth and long life. They cut brass and bronze castings readily and rapidly with a fine singing cut.

Furnished 10, 12 or 14 teeth to the inch.

| | | | | | | |
|-----------------------|--------|------|------|------|------|------|
| Width, Inches..... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
| Thickness, Inches.... | .025 | .025 | .025 | .032 | .032 | .035 |
| Gauge Nos. | 23 | 23 | 23 | 21 | 21 | 20 |
| Feet Per Lb..... | 60 | 35 | 25 | 16 | 12 | 9 |
| Per Foot | \$0.07 | .08 | .09 | .11 | .13 | .16 |

Brazing, Extra

Each, \$0.50

Spring Temper, Bright Finish, Resharpenable

Tempered for cutting Aluminum, White Metals, Fibre, Yellow Brass and other Special Compositions. Furnished 4, 5, 6, 8, 10 and 12 teeth to the inch.

| | | | | | | |
|-----------------------|--------|------|------|------|------|------|
| Width, Inches..... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
| Thickness, Inches.... | .025 | .025 | .025 | .032 | .032 | .035 |
| Gauge Nos. | 23 | 23 | 23 | 21 | 21 | 20 |
| Feet Per Lb..... | 60 | 35 | 25 | 16 | 12 | 9 |
| Per Foot | \$0.13 | .14 | .15 | .16 | .18 | .22 |

Brazing, Extra

Each, \$0.50

NOTE—All Lengths for Standard Machines Carried in Our Pittsburgh Stock, Brazed Ready for Use.

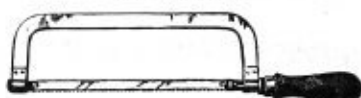
Suggestions Applying to the Use of "Lenox" Metal

Cutting Band Saws

| Material to be Cut | Speed in Running ft. per Minute | No. of Teeth per Inch |
|---|---------------------------------|-----------------------|
| Annealed Tool and H. S. Steel..... | 125-150 | 14-12 |
| Machinery and C. R. Steel..... | 150-175 | 14-10 |
| Bronze and Hard Brass..... | 150-200 | 14-12 |
| Soft Yellow Brass..... | 200-300 | 14-12 |
| Aluminum..... | 300-400 | 10-8 |
| Sheets and Tubing not less than 1/8 in. Thick | 150-175 | 18 |
| Sheets and Tubing less than 1/8 in. | 150-200 | 24 |
| Brass Sheets and Tubing..... | 200-300 | 24-18 |
| Brass and Bronze Castings..... | 150-200 | 14-12 |
| Drill Rod and Light Tool Steel Bars... | 125-150 | 24-18 |

HACK SAW FRAMES

STARRETT



Polished and Nickel Plated

Solid Steel Frame, Stained Hardwood Handle, Blades can be Set to Cut in Four Directions and Tightened by Simply Turning the Handle. Complete with Blade.

| | | | |
|-------------------------|--------|------|------|
| Nos. | 141A | 141B | 141C |
| For Blade, Inches | 8 | 10 | 12 |
| Each | \$0.85 | 1.00 | 1.10 |

One in a Box.

STARRETT EXTENSION



Polished and Nickel Plated

Solid Steel Frame, Stained Hardwood Handle, Improved Extension Back, Blade Automatically Held in Place and can be Faced in Four Directions, Tightened by Turning Handle. Complete with Blade.

| | |
|-------------------------------------|-------------|
| No. 146—Adjustable 8 to 12 in. | Each \$1.50 |
| One in a Box. | |

MILLERS FALLS ADJUSTABLE

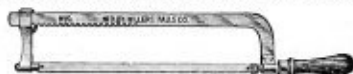


Polished and Nickel Plated

Solid Steel Frame, Cocobolo Handle, Set Screw Adjustment, Blades Tightened by Turning Handle and can be Faced in Four Directions. Complete with One 10 in. Blade. Scale for Different Lengths Marked on Back of Frame.

| | |
|---|-------------|
| No. 10—Adjustable 8 to 12 in., Weight Each 1½ Lbs. | Each \$2.25 |
| One in a Box. | |

MILLERS FALLS SOLID BACK ADJUSTABLE



Polished and Nickel Plated

Solid Steel Frame, Cocobolo Handle, Adjustable by Means of Sliding End Post, Blades Tightened by Turning Handle and can be Faced in Four Directions. Complete with One 12 in. Blade.

| | |
|--|-------------|
| No. 6—Adjustable 8 to 12 inches, Weight Each 23 Oz. | Each \$2.25 |
| One in a Box. | |

MILLERS FALLS PISTOL GRIP EXTENSION



Thumb Screw Adjustment

Blade May be Faced in Four Directions. The Handle Fits Any Size Hand.

| | |
|---|-------------|
| No. 1027—Takes 8 to 12 in. Blades, Stock 7/8x1½ in., Nickel Plated Stiff Steel Frame, Depth Under Back 3¼ in., Black Composition Handle, Complete with One 10 in. Blade, Weight Each 1¾ Lbs. | Each \$1.75 |
| One in a Box. | |

HACK SAW FRAMES

UNIVERSAL PISTOL GRIP



Sheradized to Prevent Rust

An All Metal Frame of Exceptional Strength. Back One Piece Solid Steel, will Not Bend or Buckle.

Entire Frame is Sheradized to prevent rust, and for this reason is particularly adapted for outdoor use.

"Pistol Grip" Handle affords firm, comfortable hold and eliminates hand cramp.

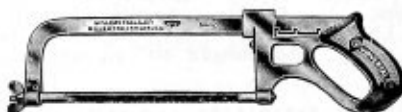
Stop Pin prevents frame from sliding out of handle.

Complete with Blade.

| | |
|---|-------------|
| No. 1100—Adjustable 8 to 12 in., Weight Each 1¾ Lbs. | Each \$2.40 |
|---|-------------|

One in a Box.

UNIVERSAL EASY GRIP

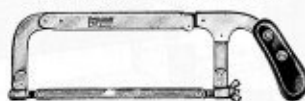


Polished and Nickel Plated

Special Black Composition Handles, Blades Strained by Thumb Nut and Faceable in Four Directions. Back One Solid Piece, with One 10 in. Blade.

| | |
|--|-------------|
| No. 12—Adjustable 8 to 12 in., Weight Each 2 Lbs. | Each \$3.15 |
| One in a Box. | |

BURRO PISTOL GRIP



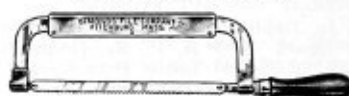
Nickel Plated, Satin Finish

Black Rubberoid Finish Wood Handle Blade Faces in Four Directions.

| | |
|---|-------------|
| No. 1046—Adjustable 8 to 12 in., Weight Each 1½ Lbs. | Each \$1.00 |
|---|-------------|

One in a Box.

SIMONDS EXTENSION



Polished and Nickel Plated

Heavy Steel Frame, Enameled Hardwood Handle, Patent Handle Adjustment, Blade Faces in Four Directions. Complete with Blade.

| | |
|---|-------------|
| No. 40—Adjustable 8 to 12 in., Weight Each 1¾ Lbs. | Each \$1.75 |
| One in a Box. | |

SIMONDS STRAIGHT CUT EXTENSION



Polished and Nickel Plated

Easy Grip Rubberoid Handle, Blade Faces in Four Directions. Complete with Blade.

| | |
|---|-------------|
| No. 41—Adjustable 8 to 12 in., Weight Each 1¾ Lbs. | Each \$2.50 |
| One in a Box. | |

HACK SAW FRAMES

UNION ADJUSTABLE



Cold Rolled Steel Frame

Adjustable One-Piece Back, Blades Strained by Turning Thumb Screw at End of Frame and can be Faced in Four Directions, Nickel Plated Stock, Mahoganized Hardwood Handle, without Blade.

Each No. 50—Takes 8 to 12 in. Blades, Weight Each 1 Lb. \$0.50

The adjustable feature is obtained by the use of a pin set in the edge of the long end of the frame.

One in a Box.

DISSTON REVERSIBLE

Heavy Polished Steel Frame

Hardwood Handle, Blades Reversible in Four Directions, Depth of Frame 3 3/8 in.

Each No. 1—Takes 12 in. Blade, Weight Each 2 1/2 Lbs. \$2.75

One in a Box.

MILLERS FALLS HEAVY REVERSIBLE

For Heavy Work on Rails, Girders, Etc.

Nickel Plated Steel Frame, Stained Hardwood Handle, Blade Faceable in Four Directions. Complete with 12 in. Blade.

Each No. 15—Takes 12 in. Blade, Stock 1x1/4 in., Depth of

Frame 5 1/4 in., Weight Each 2 1/2 Lbs. \$2.90

One in a Box.

SIMONDS RAIL

For Sawing Rails

Heavy Steel Frame, Nickel Plated, Beechwood Handle. Complete with 12 in. Blade.

Each No. 21—Takes 12 in. Blades, Frame 10 1/4 in. Deep,

Weight Each 3 3/8 Lbs. \$3.50

One in a Box.

DISSTON RAIL

Double Handles

For Sawing Rails, Iron Beams, etc. Polished Steel Frame, Hardwood Handles.

Each No. 10—Takes 18 in. Blades, Weight Each 6 Lbs. \$3.50

One in a Box.

HACK SAWS

KIT-HAXAW



A Free End, Double Edge, Rigid Saw

Tungsten Steel Blade, Hardened and Tempered Adjustable Tool Steel Handle.

Each No. 201—Upper Edge 32 Points Unset Teeth, Lower Edge 20 Point Set Teeth, Complete with 2 Extra

Blades in a Holster. \$1.50

SPRAGUE STIFF BACK

Adjustable

Frame can be adjusted to any blade, any place. For sawing in a small hole or close place. 1/8 x 3/4 in. Frame, Leg 3 1/4 in. Long Hardwood Handle, Polished Frame, Blade can be set at 45 and 90 degree angle.

Each No. 10—Complete with Long and Short Leg, with 10 in. Blade

\$2.50

One in a Box.

JEWELERS SAW FRAMES

IMPORTED

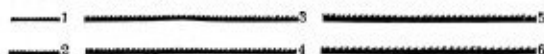


Plain Forged Steel

Steel Clamps, Hardwood Handle, Adjustable 4 to 6 in.

| | | |
|-----------------------|--------|--------|
| Nos. | 1046-2 | 1046-4 |
| Depth, Inches | 2 | 3 |
| Weight Each, Oz. | 3 | 4 |
| Each | \$0.85 | 1.25 |

Blade Not Included.

JEWELERS SAW BLADES

Imported, for Metal, 5 in. Long

| | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|--------|
| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 |
| Per Dozen | | | | | | | | \$0.50 |

SCREW SLOTTING BLADES

SIMONDS



For Cutting Slots in Screw Heads

Can be used in any Adjustable or 8 inch Hack Saw Frame. They are thick at the tooth edge and concave making them thinner at the back, which gives good clearance and prevents binding.

| | | | | |
|------------------------|--------|------|------|------|
| Nos. | 8A | 8B | 8C | 8D |
| Length In. | 8 | 8 | 8 | 8 |
| Width, In. | 1/2 | 1/2 | 1/2 | 1/2 |
| Thickness, In. | .109 | .083 | .065 | .049 |
| Weight Dozen, Oz. | 17 | 14 | 11 | 9 |
| Per Dozen | \$3.50 | 3.50 | 3.50 | 3.50 |

HACK SAW BLADES

LENOX ALL HARD



For Hand Frames

The "Lenox" All Hard Blade is the style usually selected for the most efficient production and service.

Standard List, All-Hard Hand Blades

| Lgth., In. | Width, In. | Thickness | Teeth Per Inch | Per Gross List |
|---------------|---------------|----------------|-------------------|-------------------|
| 8 | 1/2 | .025 or 23 Ga. | 18, 24, 32 | \$ 8.00 |
| 9 | 1/2 | .025 or 23 Ga. | 18, 24, 32 | 9.00 |
| 10 | 1/2 | .025 or 23 Ga. | 18, 24, 32 | 10.00 |
| 12 | 1/2 | .025 or 23 Ga. | 18, 24, 32 | 12.00 |
| 12 | 3/8 | .025 or 23 Ga. | 14, 18, 24, 32 | 12.00 |
| 12 | 3/8 | .028 or 22 Ga. | 14, 18, 24, 32 | 15.24 |

One-half Gross in a Box.

LENOX FLEXIBLE



For Hand Frames

The "Lenox" Flexible Blade is hardened on the teeth only, the back being left soft which prevents breakage. We recommend them particularly to Plumbers, Electricians, and Garage Mechanics. Because of their unbreakable quality and the abuse they will stand, many machine shops prefer them for use by unskilled workers or where awkward cutting positions are encountered.

Standard List, Flexible Hand Blades

| Lgth., In. | Width, In. | Thickness | Teeth Per Inch | Per Gross List |
|---------------|---------------|----------------|-------------------|-------------------|
| 8 | 1/2 | .025 or 23 Ga. | 18, 24, 32 | \$ 8.00 |
| 9 | 1/2 | .025 or 23 Ga. | 18, 24, 32 | 9.00 |
| 10 | 1/2 | .025 or 23 Ga. | 18, 24, 32 | 10.00 |
| 12 | 1/2 | .025 or 23 Ga. | 14, 18, 24, 32 | 12.00 |

One-half Gross in a Box.

LENOX POWER



For Light Power Machines

| Lgth., In. | Width, In. | Thickness | Teeth Per Inch | Per Gross List |
|---------------|---------------|----------------|-------------------|-------------------|
| 10 | 5/8 | .028 or 22 Ga. | 14, 18 | \$14.40 |
| 12 | 5/8 | .028 or 22 Ga. | 14, 18, 24 | 16.80 |
| 12 | 5/8 | .032 or 21 Ga. | 14, 18, 24 | 17.88 |
| 12 | 3/4 | .032 or 21 Ga. | 14, 18, 24 | 21.36 |

For Heavy Power Blades

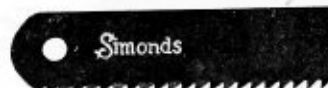
"Lenox" Heavy Power Blades are built to fill every requirement of the modern high speed hack saw machine. For straight cutting, durability, and uniformity, they are unexcelled.

Standard List, Heavy Power Blades

| Lgth., In. | Width, In. | Thickness | Teeth Per Inch | Per Gross List |
|---------------|---------------|----------------|-------------------|-------------------|
| 12 | 3/4 | .049 or 18 Ga. | 10, 14 | \$28.92 |
| 12 | 1 | .049 or 18 Ga. | 10, 14 | 37.92 |
| 14 | 3/4 | .049 or 18 Ga. | 10, 14 | 33.12 |
| 14 | 1 | .049 or 18 Ga. | 10, 14 | 43.56 |
| 14 | 1 | .065 or 16 Ga. | 7, 10 | 50.88 |
| 16 | 1 | .049 or 18 Ga. | 10, 14 | 49.08 |
| 17 | 1 | .049 or 18 Ga. | 10, 14 | 51.72 |
| 17 | 1 | .065 or 16 Ga. | 7, 10 | 59.52 |
| 18 | 1 | .049 or 18 Ga. | 10, 14 | 51.36 |
| 18 | 1 | .065 or 16 Ga. | 7, 10 | 62.04 |
| 20 | 1 | .065 or 16 Ga. | 7, 10 | 67.92 |
| 24 | 1 | .049 or 18 Ga. | 10, 14 | 70.32 |
| 24 | 1 | .065 or 16 Ga. | 7, 10 | 79.32 |
| 24 | 1 1/2 | .065 or 16 Ga. | 7, 10 | 119.04 |

All Blades measure from center to center of holes except the 14 and 17 inch lengths which measure 13 1/2 and 16 1/2 inches respectively.

SIMONDS ALL HARD



For Hand Frames

An Exceptionally High Grade All Hard Blade, Made for Hard, Continuous Service.

| Length, Inches .. | 8 | 9 | 10 | 12 |
|-------------------|---------|---------|---------|---------|
| Width, Inches .. | 1/2 | 1/2 | 1/2 | 1/2 |
| Gauge | 23—.025 | 23—.025 | 23—.025 | 23—.025 |
| Teeth Per Inch— | | | | |
| Regular | 18 | 18 | 18 | 14 |
| Medium | 24 | 24 | 24 | 18 |
| Fine | 32 | 32 | 32 | 24 |
| Extra Fine .. | 32 | 32 | 32 | 32 |
| Per Gross | \$8.00 | 9.00 | 10.00 | 12.00 |

One-half Gross in a Box.

SIMONDS SOFT BACK



For Hand Frames

Soft Back and Hard Edge—Flexible—will bend and will not shell teeth. Will do the work of an All-Hardened Blade, also the work of so-called Flexible Blades, Toughened by Special Process.

| Length, Inches .. | 8 | 9 | 10 | 12 |
|-------------------|---------|---------|---------|---------|
| Width, Inches .. | 1/2 | 1/2 | 1/2 | 1/2 |
| Gauge | 23—.025 | 23—.025 | 23—.025 | 23—.025 |
| Teeth Per Inch— | | | | |
| Medium | 18 | 18 | 18 | 18 |
| Fine | 24 | 24 | 24 | 24 |
| Extra Fine .. | 32 | 32 | 32 | 32 |
| Per Gross | \$8.00 | 9.00 | 10.00 | 12.00 |

One-half Gross in a Box.

SIMONDS POWER



For Light Power Machines

| Lgth., In. | Width, In. | Gauge | Teeth Per Inch | Per Gross |
|---------------|---------------|---------|-------------------|-----------|
| 12 | 5/8 | 21—.032 | 14 | \$17.88 |
| 12 | 3/4 | 21—.032 | 14 | 21.36 |
| 14 | 3/4 | 21—.032 | 14 | 24.36 |

One-half Gross in a Box.

For Heavy Power Machines

| Lgth., In. | Width, In. | Gauge | Teeth Per Inch | Per Gross |
|---------------|---------------|---------|-------------------|-----------|
| 12 | 3/4 | 18—.049 | 9 | \$28.92 |
| 12 | 1 | 18—.049 | 14 | 28.92 |
| 14 | 3/4 | 18—.049 | 9 | 33.12 |
| 14 | 1 | 18—.049 | 9 | 43.56 |
| 17 | 1 | 18—.049 | 9 | 51.72 |
| 17 | 1 | 16—.065 | 9 | 59.52 |

18 Gauge, 1/2 Gross; 16 Gauge, 1/4 Gross in a Box.

Regular—For Cutting Soft Steel, Iron Solids and Rails.

Medium—For Cutting Tool Steel, Iron Pipe, Hard Metals and Light Angle Irons.

Fine—For Cutting Brass, Copper, Drill Rod, Medium Tubing and Sheet Metals.

Extra Fine—For Cutting Thin Tubing and Thin Sheet Metals.

HACK SAW BLADES

MILFORD ALL-HARD



For Hand Frames

| Lgth. In. | Width In. | Thickness Gauge | Teeth Per Inch | | | Per Gross |
|--------------|----------------|--------------------|----------------|-------------|------|--------------|
| | | | Reg- ular | Me- dium | Fine | |
| 8 | $\frac{1}{16}$ | .025 or 23 | 18 | 22 | 32 | \$ 8.00 |
| 9 | $\frac{1}{16}$ | .025 or 23 | 18 | 22 | 32 | 9.00 |
| 10 | $\frac{1}{16}$ | .025 or 23 | 18 | 22 | 32 | 10.00 |
| 12 | $\frac{1}{16}$ | .025 or 23 | 18 | 22 | 32 | 12.00 |
| 12 | $\frac{1}{16}$ | .025 or 23 | 14 | 18 | 22 | 12.00 |
| 14 | $\frac{1}{16}$ | .028 or 22 | 14 | 18 | 22 | 17.52 |

One-half Gross in a Box.

For Hand Frames or Light Power Machines

| Lgth. In. | Width In. | Thickness Gauge | Teeth Per Inch | | | Per Gross |
|--------------|----------------|--------------------|----------------|-------------|------|--------------|
| | | | Reg- ular | Me- dium | Fine | |
| 12 | $\frac{3}{16}$ | .028 or 22 | 14 | 18 | 22 | \$15.24 |

One-half Gross in a Box.

MILFLEX SOFT BACK



For Hand Frames

Designed for difficult sawing, where all hard blades are liable to break.

They are particularly recommended to plumbers, electricians and for garage work.

| Lgth. In. | Width In. | Thickness Gauge | Teeth Per Inch | | | Per Gross |
|--------------|----------------|--------------------|----------------|------|-------------|--------------|
| | | | Reg- ular | Fine | Tub- ing | |
| 8 | $\frac{1}{16}$ | .025 or 23 | 18 | 22 | 32 | \$ 8.00 |
| 9 | $\frac{1}{16}$ | .025 or 23 | 18 | 22 | 32 | 9.00 |
| 10 | $\frac{1}{16}$ | .025 or 23 | 18 | 22 | 32 | 10.00 |
| 12 | $\frac{1}{16}$ | .025 or 23 | 18 | 22 | 32 | 12.00 |

One-half Gross in a Box.

Milflex Blades 18 Teeth are furnished with Straight-Right-Left Hand Set as illustrated.



Milflex Blades 22 Teeth are furnished with "Wavy" Set as in the following illustration.



Actual practice indicates the best uses for the different teeth as follows:

- 14 Teeth—For cutting soft steel, cast iron, bronze, etc.
- 18 Teeth—For tool steels, high speed steels, small solids.
- 22 Teeth—For brass, iron pipe, heavy tubing, BX and electrical conduit.
- 32 Teeth—For very thin tubing, light BX, thin sheet metals, flush pipe, wire mold, etc.

When teeth are not specified, 22 teeth will be supplied.

MILFORD POWER



For Use in Heavy Power Hack Saw Machines

| Length, Inches... | 12 | 12 | 12 | 14 |
|-------------------|----------------|----------------|---------|----------------|
| Width, Inches... | $\frac{3}{16}$ | $\frac{3}{16}$ | 1 | $\frac{3}{16}$ |
| Thickness, In... | .032-21 | .049-18 | .049-18 | .049-18 |
| Teeth Per Inch... | 14-18 | 14 | 14 | 10 |
| Per Gross... | \$17.88 | 28.92 | 37.92 | 33.12 |

| Length, Inches... | 17 | 17 | 20 |
|----------------------|---------|---------|---------|
| Width, Inches... | 1 | 1 | 1 |
| Thickness, Inches... | .049-18 | .065-16 | .049-18 |
| Teeth Per Inch... | 10-14 | 10 | 10 |
| Per Gross... | \$51.72 | 59.52 | 59.52 |

21 Gauge, Half Gross; 18 Gauge, One-third Gross; 16 Gauge, One-quarter Gross in a Box.

Blades 14 in. and longer, in widths $\frac{3}{16}$ to 1 in. inclusive, measure $\frac{1}{16}$ in. less between centers of holes than lengths specified in foregoing lists, except 16 in. which measures full 16 in. between centers.

Blades $1\frac{1}{4}$ and $1\frac{1}{2}$ in. wide, measure between centers exactly the lengths specified.

When specifying, it is essential to state Length, Width, Thickness and Teeth per inch. If teeth are not specified Stock Teeth will be supplied.

Should it not be clear what Teeth to specify, details should be given in respect to Shape and Type of Material to be cut, and whether for use in Hand Frame or Power Saw Machine, stating Make of Machine whenever possible. Blades can then be furnished which actual practice indicates as best suited to the work.

MILFLEX-MIDGET



For Use in Jewelers Frames

Soft Back with Hard Teeth, Practically Unbreakable, Very Durable, Cut Rapidly and Smoothly.

| Length, Inches | 6 |
|------------------|---------------|
| Width, Inches | $\frac{1}{4}$ |
| Thickness, Gauge | .014 or 28 |
| Teeth Per Inch | 32 |
| Per Gross | \$9.00 |

One-half Gross in a Box.

SCREW SLOTTING BLADES



For Use in Hand Hack Saw Frames

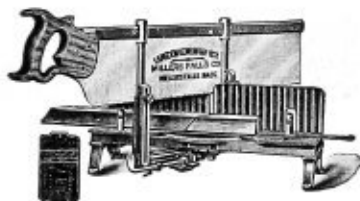
Special Alloy Steel, Hardened, Thin Backs, 8 in. Long, $\frac{1}{2}$ in. Wide, Straight Teeth.

| Nos. | 8A | 8B | 8C | 8D |
|--|----------------|----------------|----------------|----------------|
| Thickness, Inches | $\frac{1}{16}$ | $\frac{1}{16}$ | $\frac{1}{16}$ | $\frac{1}{16}$ |
| Per Gross | \$33.00 | 35.00 | 37.00 | 39.00 |
| Set—4 Sizes, One Each of Above.....Per Set, \$1.00 | | | | |

Every machine shop has frequent occasions for cutting slots in screw heads, bolts, set screws and parts of machinery. These blades are designed to perform this service.

MITRE BOXES

LANGDON ACME



With Adjustable Guides

Japanned Cast Iron Frame, Malleable Iron Legs, Adjustable Saw Guide Support Saw Above the Work, Degree Graduation, Spring Lever Clamp to Hold Saw at Any Angle Set, Stock Guides, Length Gauge, Depth Gauge and Extension Lever.

Take Up Provides for Wear on Saw, Checkered Bottom Board (Prevents Work from Slipping), Disston Mitre Saw.

| Nos. | 68 | 69 | 72 |
|--------------------------|---------|--------|--------|
| Sizes | 1 | 1 | 2 |
| Saw, Inches | 22x4 | 24x4 | 24x4 |
| Right Angle Cap., Inches | 7 1/2 | 7 1/2 | 10 1/4 |
| Mitre (45°), Inches | 5 | 5 | 7 |
| Weight Boxed, Lbs. | 34 | 35 | 35 |
| Net Weight, Lbs. | 23 | 23 1/2 | 23 1/2 |
| Each, with Saw | \$21.15 | 22.00 | 23.75 |

| Nos. | 73 | 74 | 75 |
|--------------------------|---------|--------|--------|
| Sizes | 2 | 2 1/2 | 2 1/2 |
| Saw, Inches | 26x4 | 28x5 | 30x5 |
| Right Angle Cap., Inches | 10 1/4 | 10 1/4 | 10 1/4 |
| Mitre (45°), Inches | 7 | 7 | 7 |
| Weight Boxed, Lbs. | 36 | 37 | 38 |
| Net Weight, Lbs. | 24 | 25 | 25 1/2 |
| Each, with Saw | \$24.10 | 27.25 | 28.95 |

A graduated arc upon the bed and an index plate tell at what degrees to set the saw for certain desired cuts.

A simple and effective device automatically catches the saw guides and holds them suspended when they are raised to their highest point and releases them instantly when desired.

Notches in the bed plate determine the positive angles most in use.

By the use of a thumb lever at the front of the box the saw supports may be swung freely and locked at either a positive or an intermediate angle.

One in a Box.

GOODELL ALL-STEEL

With Back Saw Angle Attachment and Depth Gauge

The saw when elevated is held in place by a spring lock which is easily released by a slight downward pressure.

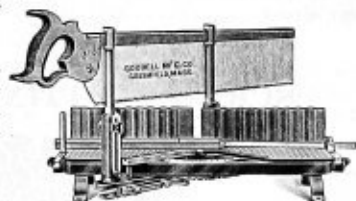
Angles are correctly indicated on the graduated arc by means of a small brass pin in the saw lever.

Angles more acute than 45 degrees are obtained by an extra angle attachment fastened to the left side of the box. This attachment can also be used as a molding holder. A length gauge is fastened to the right side of the box. This can be quickly set in position for cutting duplicate pieces of any length up to 20 in.

All sizes have a capacity of 10 1/2 in. at right angles and 7 1/2 in. at mitre.

| Nos. | 1244 | 1264 | 1285 | 1305 |
|--------------------|---------|-------|-------|-------|
| Saw, Inches | 24x4 | 26x4 | 28x5 | 30x5 |
| Net Weight, Lbs. | 20 | 21 | 24 | 25 |
| Weight Boxed, Lbs. | 30 | 31 | 35 | 37 |
| Each, with Saw | \$24.50 | 25.50 | 27.50 | 28.60 |

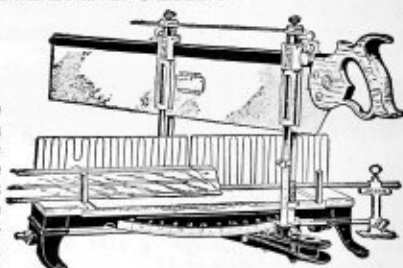
One in a Box.



MITRE BOXES

STANLEY
With Adjustable
Guides

Japanned One Piece Cast Iron Frame, Malleable Legs, Adjustable Saw Guide Supports Saw Above the Work, Degree Graduation, Length Gauge, Graduation Saw Uprights, Depth Stops, Stock Guides, Equipped with High Grade Mitre Box Saw.



Small Frame

Will Cut Mitre (45°) on Work up to 5 1/2 in.

| Nos. | 240 | 242 | 244 | 246 |
|-------------------|---------|-------|-------|-------|
| Size Saw, Inches | 20x4 | 22x4 | 24x4 | 26x4 |
| Weight Each, Lbs. | 31 | 32 | 33 | 34 |
| Each, with Saw | \$22.30 | 22.85 | 23.35 | 23.95 |

Medium Frame

Will Cut Mitres (45°) on Work up to 6 1/2 in. Each

| | |
|---|---------|
| No. 358—28x5 in. Saw, Capacity at Right Angle 9 1/2 in., Capacity at Mitre (45°) 6 1/2 in., Capacity at Angle (30°) 4 1/2 in., Weight Each with Saw 40 Lbs. | \$27.40 |
|---|---------|

STANLEY ALUMINUM

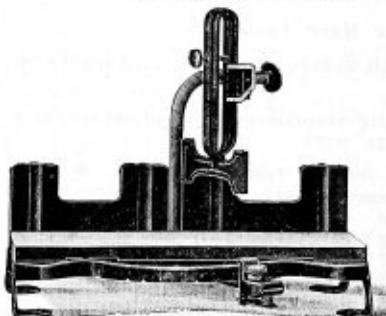
Each

| | |
|--|---------|
| No. A358—Same as Regular No. 358 Mitre Box, Except Most Parts are Aluminum, Weight Each with Saw 15 Lbs. | \$36.00 |
|--|---------|

One in a Box.

MILLERS FALLS OPEN FRONT

Made Entirely of Steel



Black Japanned Frame, Red Enamelled Saw Guide, Nickel Plated Trimmings, One Piece Frame and Legs, Adjustable Saw Guide, Patent Squaring Device, Swivel Arm Notched for all Positive Angles, Clamping

Device for Intermediate Angles, Roll to Prevent Saw from Marring Bottom Board.

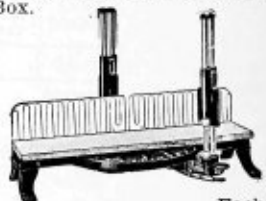
| | |
|---|--------|
| No. 110—Without Saw, Weight Each 9 Lbs. | \$6.70 |
|---|--------|

One in a Box.

VICTOR

Without Saw

Black Japanned Cast Iron Frame, Malleable Iron Legs, Steel Guide Rods.



| | |
|--|---------|
| No. 50 1/2—Without Saw, Capacity at Right Angle 7 1/4 in., Capacity at Mitre 45°, 4 1/4 in., Weight Each 20 Lbs. | \$10.95 |
|--|---------|

Either a back saw or a panel saw can be used in this box. The back, frame, indexed quadrant and swivel arm bearing are in one piece and accurately machined. The swivel arm can be locked at any desired point between zero and 45°. The quadrant is indexed for cutting 4, 5, 6, 8, 12 and 24 sided pieces.

The saw guide uprights are securely clamped in the sockets in the swivel and can be adjusted to hold the saw without side play, thus insuring great accuracy in working. Movable stops are attached to the saw guide uprights permitting the saw to cut only to the desired depth.

One in a Box.

MITRE BOXES

PERFECTION



Without Saw

Box Made of Inlaid Fancy Wood, Highly Finished, Japanned and Nickeled Trimmings, Any Saw May be Used, Back, Panel or Hand.

Each

No. 201—16 in. Long,
6 in. Wide, Back 4
in. High, Wt. Each 5
Lbs. \$4.50

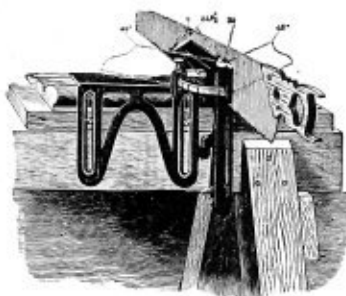
By means of the sliding key (exactly adjusted between bearings) the saw guide can be set to the angles more commonly used, indicated on the dial by letters M, P, H, O, W, R, W, O, H, P, M, viz.: R, right angle or square cut, M, mitre or 45 degrees, P, pentagon or 36 degrees, H, hexagon or 30 degrees, O, octagon or 22½ degrees, W, to match usual door and window sill pitch, 9 degrees.

Two in a Box.

RED DEVIL

Can be Folded for Carrying in Tool Case

Red Enamelled Steel Frame, Nickel Plated Steel Gauge. Cuts any width of Mitre, makes perfect joints. Adjustable to cut square or at angles of 22½, 30 or 45 degrees. No special saw required.



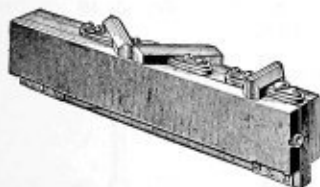
Each

No. 159—Without Saw, Weight Each 2½ Lbs. \$5.00

One in a Box.

GEM FOLDING

Adjustable Nickel Plated Saw Guides



Thoroughly Seasoned Oak. Adapted to Any Size or Style of Hand or Back Saw. Occupies Small Space in Tool Box. Easily and Quickly Adjusted.

Each

No. 1G—14 in. Long, Height of Back 3 in., Takes Moulding Up to 2½ in., Weight Each 4 Lbs. \$3.00

One in a Box.

REGULAR WOOD



Kiln Dried Hardwood, with Mitre and Straight Cuts

| Nos. | 1 | 2 | 3 |
|-----------------------|--------|-------|-------|
| Length, Inches | 12 | 18 | 24 |
| Width, Inches | 2 7/8 | 3 3/8 | 3 7/8 |
| Height Inside, Inches | 2 3/8 | 2 5/8 | 3 1/8 |
| Each | \$0.75 | 1.00 | 1.25 |

Open Stock.

MITRE MACHINES

MARSH



Complete with Saw, Rule, Gauge and Auxiliary Clamps

A strong and compact tool originally designed for the joining of picture frames, but now used extensively for all classes of woodwork.

Any type of mitered joint may be readily cut, glued and nailed; and close, tight-fitting corners can be assured.

Each

No. 1—Will Saw Moulding 4½ in. Wide and Smaller, Will Clamp Any Frame 7½x7½ in. or Larger, with Saw 26x4½ in., Weight Each 20 Lbs. \$20.75

These low or auxiliary clamps are slipped over the regular clamps for certain types of mouldings that are not readily gripped by the latter. High back mouldings can be held rigid and sawed as easily as simpler patterns. The saw may be reversed and frames cut from either front or back. The rule may be placed on either side of the machine making it possible to cut the opposite sides of frame to exactly the same lengths.

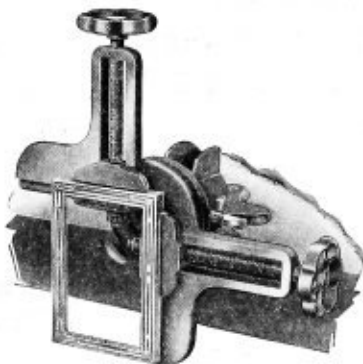
The universal back permits the frame to be tilted or swung into the position most convenient for nailing.

The saw is held above the work by detent springs, enabling the work to be adjusted without taking saw from the machine.

One in a Box.

MITRE VISES

MARSH



With Swinging and Tilting Base

Holds a frame in proper position for nailing with greatest ease possible. The vise has swivel and tilting attachments and can be swung or tipped in any position desired.

Each

No. 2—Will Clamp Any Frame 3½x3½ in., or Larger, Takes Any Kind of Moulding 4 in. Wide or Less, Weight Each 8 Lbs. \$8.00

One in a Box.

BIT BRACES

YANKEE

Nickel Plated, Hard Rubber Handle



Noiseless Ratchet, Quick Positive Shifter, Quick Centering Ball Bearing Chuck, Hardened Tool Steel Pawls, Dust and Moisture Proof Ratchet Case, Steel Clad Head, Chucks hold any bit up to 1/2 in. diameter.

| Nos. | 2100A | 2100B | 2100C | 2100D |
|-------------------|--------|-------|-------|-------|
| Sweep, Inches | 8 | 10 | 12 | 14 |
| Weight Each, Lbs. | 3 | 3 1/4 | 3 1/4 | 3 1/2 |
| Each | \$8.80 | 9.00 | 9.25 | 9.75 |

On the 14 in. brace the hole in the end of the chuck is larger to take bit shank 5/8 in. square for ship augers and large auger bits.

One in a Carton, Three in a Box.

Note—A Self-Demonstrating Display Stand is furnished free with each order for three braces.

MILLERS FALLS BALL BEARING RATCHET

Nickel Plated and Buffed.

Cocobolo Head and Handle, Lion Ball Bearing Chuck, Jaws have Parallel Milled Grooves which Grip Along Their Entire Length, Holds Bit Shanks, Round Shanks from 1/4 to 1/2 in., and No. 1 Morse Taper Shanks, Concealed Ratchet, Ball Bearing Head, Full Steel Clad, Ball Bearing Handle and Metal Inserted Rings.



| Nos. | 773 | 772 | 771 | 770 | 769 |
|-------------------|--------|-------|-------|------|-------|
| Sweep, Inches | 8 | 10 | 12 | 14 | 16 |
| Weight Each, Lbs. | 3 | 3 1/4 | 3 1/4 | 4 | 4 1/2 |
| Each | \$6.00 | 6.05 | 6.30 | 6.45 | 6.80 |

Two in a Box.

HOLDALL RATCHET, BALL BEARING

Nickel Plated, with Master Chuck



Steel Sweep, Ball Bearing Cocobolo Head, Non-Splitting Free Acting Cocobolo Handle with Inserted Steel Rings, with Master Chuck Holding 1/4 to 1/2 inch Round Shanks, No. 1 Morse Taper, Bit Stock and Expansion Bit Shanks.

| Nos. | 733 | 732 | 731 | 730 |
|-------------------|--------|-------|-------|-------|
| Sweep, Inches | 8 | 10 | 12 | 14 |
| Weight Each, Lbs. | 2 1/4 | 3 1/4 | 3 1/4 | 3 1/2 |
| Each | \$5.10 | 5.15 | 5.40 | 5.55 |

The Feature of this Master Chuck is, that the jaws adjust themselves to fit any style of bit shank of any taper.

Two in a Box.

BARBERS IMPROVED RATCHET, BALL BEARING

Nickel Plated

Steel Sweep, Ball Bearing Cocobolo Head, Non-Splitting Cocobolo Handle with Inserted Steel Rings, Covered Ratchet Teeth with Exposed Ratchet Dogs, Forged Steel Alligator Jaws.



| Nos. | 34 | 33 | 32 | 31 | 30 |
|-------------------|--------|-------|-------|------|-------|
| Sweep, Inches | 6 | 8 | 10 | 12 | 14 |
| Weight Each, Lbs. | 2 1/4 | 2 1/2 | 2 3/4 | 3 | 3 1/2 |
| Each | \$4.65 | 4.65 | 4.70 | 4.95 | 5.10 |

Two in a Box.

BIT BRACES

PEXTO BOX RING RATCHET, BALL BEARING

Full Nickel Plated



Steel Sweep, Ball Bearing Steel Clad Cocobolo Head, Cocobolo Handle, Box Ring Ratchet, Extra Knurled Steel Chuck with Machine Cut Thread, One Piece Self-Centering Forged Steel Jaws.

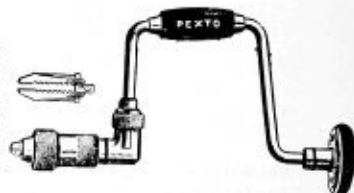
| Nos. | 7008 | 7010 | 7012 | 7014 |
|-------------------|--------|-------|-------|-------|
| Sweep, Inches | 8 | 10 | 12 | 14 |
| Weight Each, Lbs. | 2 1/2 | 3 1/4 | 3 1/2 | 3 3/4 |
| Each | \$5.80 | 5.95 | 6.10 | 6.25 |

Two in a Box.

SAMSON CONCEALED RING RATCHET, BALL BEARING

Full Nickel Plated

Steel Sweep, Ball Bearing Steel Clad Cocobolo Head, Cocobolo Handle, Concealed Ring Ratchet, Sampson Ball Bearing Chuck, Improved Sampson Jaws Hold Any Shank 1/4 to 1/2 inch.



| Nos. | 8008 | 8010 | 8012 | 8014 |
|-------------------|--------|-------|-------|------|
| Sweep, Inches | 8 | 10 | 12 | 14 |
| Weight Each, Lbs. | 3 1/4 | 3 1/2 | 3 3/4 | 4 |
| Each | \$6.50 | 6.75 | 7.00 | 7.50 |

Two in a Box.

STANLEY CONCEALED RATCHET, BALL BEARING

No. 921—Heavily Nickel Plated



Steel Sweep, Ball Bearing Cocobolo Head, Cocobolo Handle, Concealed Ratchet, Machined Chuck, Drop Forged Steel Alligator Jaws.

| Sweep, Inches | 8 | 10 | 12 | 14 |
|-------------------|--------|-------|-------|-------|
| Weight Each, Lbs. | 2 3/4 | 3 1/4 | 3 1/4 | 3 1/2 |
| Each | \$5.15 | 5.25 | 5.40 | 5.70 |

Two in a Box.

VICTOR OPEN RATCHET

No. 945—Nickel Plated

Steel Sweep, Hardwood Head and Handle, Open Ratchet, Machined Chuck, Drop Forged Steel Alligator Jaws.



| Sweep, Inches | 8 | 10 | 12 |
|-------------------|--------|-------|-------|
| Weight Each, Lbs. | 2 1/4 | 2 1/2 | 2 3/4 |
| Each | \$2.95 | 3.00 | 3.05 |

Six in a Box.



No. 965—Polished

Steel Sweep, Hardwood Head and Handle, Open Ratchet, Alligator Jaws.

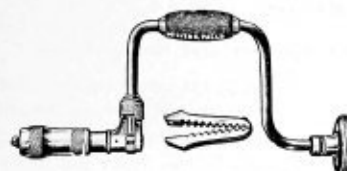
| Sweep, Inches | 8 | 10 | 12 |
|-------------------|--------|-------|-------|
| Weight Each, Lbs. | 2 1/4 | 2 1/2 | 2 3/4 |
| Each | \$2.10 | 2.15 | 2.20 |

Six in a Box.

BIT BRACES

MILLERS FALLS IMPROVED RATCHET, BALL BEARING

Nickel Plated



Steel Sweep, Ball Bearing Stained Hardwood Head, Stained Hardwood Handle with Inserted Brass Rings, Open Ratchet, Forged Steel Alligator Jaws.

| | | | |
|-------------------|--------|-------|-------|
| Nos. | 323 | 322 | 321 |
| Sweep, Inches | 8 | 10 | 12 |
| Weight Each, Lbs. | 2 3/4 | 2 3/4 | 2 7/8 |
| Each | \$3.85 | 3.90 | 4.05 |

Six in a Box.

MILLERS FALLS OPEN RATCHET

Nickel Plated.

Stained Hardwood Head and Handle, Barber Chuck, Alligator Jaws, Open Ratchet, Inserted Metal Ring in Handle, Plain Bearing.



| | | |
|-------------------|--------|-------|
| Nos. | 1663 | 1662 |
| Sweep, Inches | 8 | 10 |
| Weight Each, Lbs. | 2 | 2 1/4 |
| Each | \$2.05 | 2.10 |

Six in a Box.

BARBERS SLEEVE

Polished.



Steel Sweep and Jaw Socket, Stained Hardwood Head and Handle, Malleable Alligator Jaws.

| | | | |
|------------------------|--------|------|------|
| Nos. | 143 | 142 | 141 |
| Sweep, Inches | 8 | 10 | 12 |
| Weight Per Dozen, Lbs. | 15 1/2 | 21 | 23 |
| Each | \$1.65 | 1.70 | 1.75 |

Six in a Box.

CORNER BRACES

STANLEY

No. 992 Nickel Plated

Metal Clad Head, Cocobolo Head and Handle, Machined and Hardened Forged Steel Jaws.

| | | |
|------------|--------|--------|
| Sweep, In. | 8 | 10 |
| Wt., Lbs. | 3 3/4 | 4 |
| Each | \$7.35 | \$8.10 |

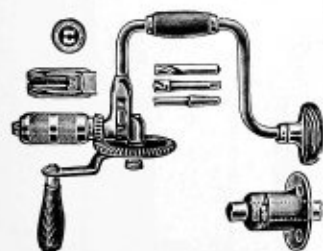
Two in a Box.



DRILL BRACES

MILLERS FALLS RATCHET BALL BEARING

Polished and Nickel Plated Each

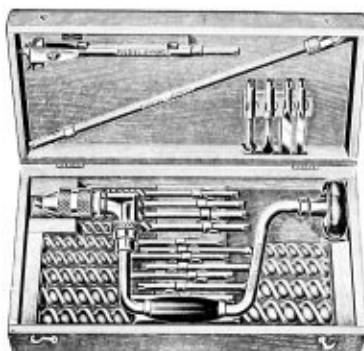


No. 182—10 in. Steel Sweep, Ball Bearing Cocobolo Head, Cocobolo Handle, Gear Ratio 3 to 1, Master Chuck, Forged Steel Jaws Holding 1/4 to 1/2 in. Diameter Round Shanks, No. 1 Morse Taper, Bit Stock and Expansive Bit Shanks, Wt. Each 4 1/4 Lbs. \$8.35

The drill attachment can be removed or affixed in a moment's time. One in a Box.

BIT AND BRACE SETS

RUSSELL JENNINGS COMBINATION "PRECISION"



Sets are Contained in Neat Basswood Boxes with Clips and Fittings to secure the Tools in Place.

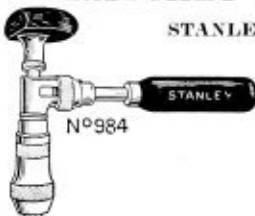
All Tools have "Precision" Shank, and the Bit Brace is Fitted with "Precision" Chuck.

Per Set

No. 11—Consists of 1 Ratchet Bit Brace, 13 (4 to 16/16ths) Extension Lip Auger Bits, 1 Expansive Bit, 1 Auger Bit Extension, 2 Screw Driver Bits, 1 Countersink for Wood and 1 Countersink for Metal, Weight Per Set 10 1/4 Lbs. \$15.75

RATCHET CORNER BRACES

STANLEY BALL BEARING



Designed particularly for mechanics who have occasion to work close up into corners or in other inaccessible places where there is no room for an ordinary corner brace.

Each

No. 984—Nickel Plated Parts, Ball Bearing Cocobolo Head, Cocobolo Handle, Drop Forged Steel Alligator Jaws, Weight Each 4 3/4 Lbs. \$4.40
Two in a Box.

ANGULAR BORERS

UNIVERSAL



With Master Chuck

To be used with a Bit Brace or Breast Drill either as an Extension or Angular Borer, Boring Angle Adjustable from 180° to 125°. Main Body Japanned, Chuck and Other Parts Polished. Chuck Capacity 1/4 to 1/2 S. S. Drills, Bit Stock and No. 1 Morse Taper.

Each

No. 108—Length Extended 12 1/2 in., Weight Each 2 1/4 Lbs. \$3.00
One in a Box.

SILL BORERS

MILLERS FALLS, BALL BEARING

With Adjustable Handle



For use in connection with a bit brace or breast drill in boring at right angles in cramped places and indispensable for car builders, electricians, carpenters, and other wood workers.

Each

No. 51—16 1/2 in. Long, Depth of Head 2 3/4 in., Malleable Iron Frame, Hardened Steel Working Parts, Adjustable Steadying Handle, with Patent Cup Washer and Screw to Hold Head in Place without Working Loose, Wt. Each 3 Lbs. \$5.30
One in a Box.

AUGER HANDLES

MILLERS FALLS ADJUSTABLE



Hardwood Handle, Polished Steel Frame Each
No. 2—17 in. Long, Weight Each $1\frac{1}{4}$ Lbs. \$0.90
Six in a Box.



Hardwood Handle, Black Japanned Frame
Ash Handles, Malleable Castings, a Light and Strong
Handle with a Single Set Screw for convenience, holds all
ordinary Bit and Auger sizes. Each
No. 3—16 in. Long, Weight Each $1\frac{1}{2}$ Lbs. \$0.90
Three in a Box.

MILLERS FALLS RATCHET

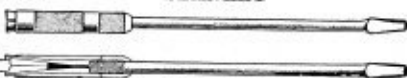
With Detachable Handle

Nickel Plated Metal Parts,
Ashwood Handles, One Handle
Detachable, Ratchet
works either to Right or
Left or may be Locked, may
be used as a Ratchet Drill.

Each
No. 4 — 15 in. Long,
Wt. Each $2\frac{3}{4}$ Lbs. \$4.30
One in a Box.

BIT EXTENSIONS

STANLEY



No. 1—Follows Bits $\frac{5}{8}$ in. Diameter and Larger
Bit Socket and Shank One Piece of Steel, Nickel Plated.
Bit will not Work Loose.
Length, Inches 12 18 24
Weight Each, Oz. 7 $10\frac{1}{2}$ 14
Each \$2.15 2.25 2.40
Six in a Box.



No. 3—Follows Bits $\frac{5}{8}$ in. Diameter and Larger
Bit Socket and Shank One Piece of Steel, Nickel Plated.
Bit will not Work Loose.
Length, Inches 12 18 24
Weight Each, Oz. 7 $10\frac{1}{2}$ 14
Each \$2.15 2.25 2.40
Six in a Box.

MAYHEW



No. BX1—Follows Bits $\frac{5}{8}$ in. Diameter and Larger
Forged Steel Jaws, Hardened and Tempered, Self-centering,
Polished, Knurled Sleeve.
Length, Inches 12 18 24
Weight Each, Oz. 8 11 15
Each \$1.75 1.85 2.00
Three in a Box.

YANKEE



No. 2150—Follows Bits $\frac{1}{4}$ in. Diameter and Larger
Bits will Not Loosen or Come Out while in use.
"Yankee" Pattern prevents bit from jamming in socket.
Length, Inches 15 18 21 24
Weight Each, Oz. 8 11 13 15
Each \$2.00 2.25 2.50 2.75
One in a Box.

ELECTRICIANS BORING MACHINES

HYKON

With Ratchet and Spring Recoil



A High-speed Boring Device operated
by easy direct pull and Spring Recoil
action. Eliminates need of scaffolding
or step ladder, bores holes on dead
levels, five times as fast as a brace and
bit. Twice as fast as chain machine
and easier to operate, simply pull the
strap and the spring carries it back, a
most natural motion.

Has self-centering chuck taking stand-
ard square Shank Bit.

Each

Hykon—With Square Telescoping Standard Adjust-
able from $4\frac{1}{2}$ to $13\frac{1}{2}$ ft., Complete with $\frac{1}{8}$ in.
Bit \$37.50

HYKON "OLD HOUSE" WIRING ATTACHMENT

For Use with Hykon Electricians' Boring Machine

Bores holes easily and quickly in a straight line and
on a dead level, saves time in boring and pulling wires.
It has two round steel rods which afford an accurate guide
to position of hole. It has comfortable handle grips and
operating position for man doing the boring. Easily and
quickly attached to the boring machine.

Each

Old House Wiring Attachment \$6.00

HYKON SAW ATTACHMENT

For Use with Hykon Electricians' Boring Machine

Used for Notching Joists for Conduit Wiring.

Each

Saw Attachment \$3.50

HYKON UNIVERSAL BORING ATTACHMENT

For Use with Hykon Electricians' Boring Machine

For boring in out of way places when a brace and bit
is awkward.

For boring for switches under window seat, behind furn-
ace pipes or for installing radio.

It is fastened to boring device in a couple of minutes.
Has comfortable hand hold.

Each

Universal Boring Attachment \$4.00

RED DEVIL

With Chain Drive

For Beams and Joists
overhead or beneath the
floor. Bores holes in per-
fect alignment. Nothing to
get out of order. Adjust-
ing rod housed to hollow
frame. Equipped with
Cross Tee Rest, adjustable
to any height. Red Enam-
eled Finish.

Each

No. 2417—With One
Each $10\frac{1}{16}$ and $11\frac{1}{16}$
in. Electricians' Bit,
Weight Each 16
Lbs. \$21.25



LOCK MORTISERS

ALTA HAND

Cuts An Ordinary Mortise in Five Minutes

A hand-driven machine with gear reduction and fly wheel to give ample power with very little effort on part of the operator.

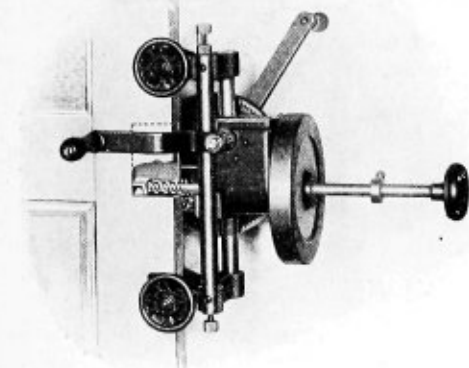
It is equipped with self-centering jaws with wood faces.

This machine cuts up and down the entire face, not a series of holes.

Cuts entire mortise, including face-plate, without being taken from the door.

Substantially built to give long satisfactory service for the contractor who feels his work does not justify purchase of the motor-driven machine.

Every machine is guaranteed to do the work as represented and warranted against defective materials for one year.



No. 1A—With 2 Cutters, Weight Each 31 Lbs. Each
\$75.00

Note—Cutters $\frac{5}{8}$ to $1\frac{1}{4}$ inches, by 16ths inches are carried in stock for the above Machine. State Sizes desired when ordering.

ALTA ELECTRIC

Cuts An Ordinary Mortise in Less Than a Minute.

Aluminum Frame, Light in Weight and Rust-Proof, 110 Volt Universal Motor operated from any light socket.

The cutter shaft is mounted on ball bearings.

It is equipped with self-centering jaws with wood faces.

Cuts up and down the entire face—not a series of holes. It cuts the entire mortise, including face plate, without being taken from the door.

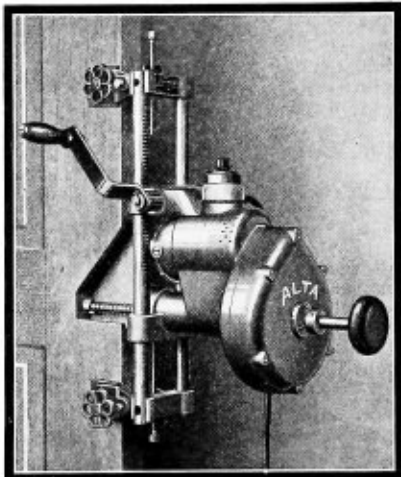
They are simple, durable and accurate.

Every machine is guaranteed to do the work as represented and warranted against defective materials for one year.

Model C—With 2 Cutters, Weight Each 35 Lbs. Each
\$125.00

Note—Cutters $\frac{5}{8}$ to $1\frac{1}{4}$ inches by 16ths inches, are carried in stock for the above machine, state Sizes desired when ordering.

These Mortisers are built to stand severe service, that is why they are considered good tools.



ALTA COMBINATION

Motor or Hand Driven.

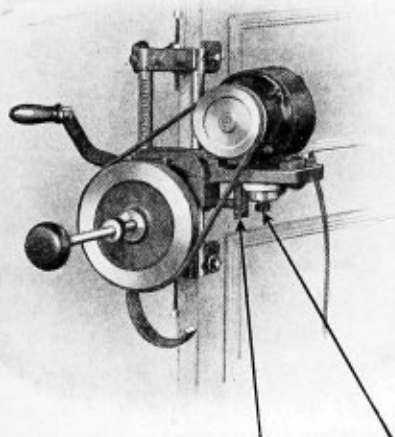
A light weight, portable, one-man machine, can be carried as easily as an electric drill. Sturdy and compact in design, with few working parts. Consider the convenience of this little electric tool that can be carried in one hand from door to door and from floor to floor.

It is quickly converted from Motor Drive to Hand Drive by removing belt guard, slipping belt off fly-wheel and removing screw (S) and four motor plate screws. Motor remains bolted to motor plate. This machine will cut the entire mortise, including face-plate, without being taken off the door. The machine is self-centering on the door. It will cut a $\frac{3}{8}$ inch mortise in a 1 inch door without splitting the sides. Equipped with Adjustable Stop, Hardened Machine Cut Gears, enclosed and running in oil, Belt Guard, Fly Wheel and Rest Guard, Adjustable Collar which controls depth of mortise and 10 ft. Cord with Attachment Plug.

It is also furnished with Attachment for Hand Drive.

No. AC—With 2 Cutters, Complete with $\frac{3}{8}$ H. P. Motor, Weight 45 Lbs. Each
\$125.00

Note—Cutters $\frac{5}{8}$ to $1\frac{1}{4}$ inches by 16ths inches are carried in stock for the above machine, state Sizes desired when ordering.



AUGER BITS

IRWIN MAINBOR

**No. 62T—For General Work**

With Solid Center, Forged from Special Analysis Steel, Tempered, Polished Twist and Shank, Unpolished Square, Double Cutter, Double Extension Lip, Single Twist.

| Inches, 16ths | 3 | 4 | 5 | 6 | 7 |
|-------------------------|---------|-------|--------|-------|-------|
| Length Twist, Inches | 4 | 4 | 4 1/4 | 4 1/2 | 4 3/4 |
| Length Over All, Inches | 7 1/4 | 7 1/2 | 7 3/4 | 7 3/4 | 7 3/4 |
| Weight Per Dozen, Lbs. | 1 | 1 | 1 1/4 | 1 1/2 | 2 |
| Per Dozen | \$4.50 | 4.00 | 4.00 | 4.00 | 4.50 |
| Inches, 16ths | 8 | 9 | 10 | 11 | 12 |
| Length Twist, Inches | 4 1/2 | 4 3/4 | 4 3/4 | 4 3/4 | 4 5/8 |
| Length Over All, Inches | 8 | 8 1/8 | 8 1/4 | 8 3/8 | 8 1/2 |
| Weight Per Dozen, Lbs. | 2 1/2 | 2 3/4 | 3 | 3 | 4 |
| Per Dozen | \$5.00 | 5.50 | 6.00 | 7.00 | 7.00 |
| Inches, 16ths | 13 | 14 | 15 | 16 | |
| Length Twist, Inches | 4 3/4 | 4 3/4 | 4 3/4 | 4 3/4 | |
| Length Over All, Inches | 8 5/8 | 8 3/4 | 8 3/4 | 9 | |
| Weight Per Dozen, Lbs. | 4 | 4 3/4 | 5 | 6 | |
| Per Dozen | \$8.00 | 8.00 | 9.00 | 9.00 | |
| Inches, 16ths | 18 | 20 | 22 | 24 | |
| Length Twist, Inches | 4 1/2 | 5 | 5 1/4 | 5 1/2 | |
| Length Over All, Inches | 9 1/8 | 9 1/4 | 9 3/4 | 9 1/2 | |
| Weight Per Dozen, Lbs. | 6 | 8 | 9 | 10 | |
| Per Dozen | \$10.50 | 12.00 | 13.50 | 15.00 | |
| Inches, 16ths | 26 | 28 | 30 | 32 | |
| Length Twist, Inches | 5 1/2 | 5 3/4 | 5 3/4 | 6 | |
| Length Over All, Inches | 9 1/2 | 10 | 10 1/2 | 11 | |
| Weight Per Dozen, Lbs. | 10 | 12 | 12 | 12 | |
| Per Dozen | \$17.00 | 19.00 | 21.00 | 23.00 | |

3 to 16/16, One-half Dozen; Larger Sizes, One-quarter Dozen in a Box.

RUSSELL JENNINGS**No. 100—Extension Lip.**

Forged Crucible Tool Steel, Oil Tempered, Polished Twist and Stem, Natural Finish Shank, Double Spur and Extension Lip, Double Thread on Screw. Average Length 9 in.

| Inches, 16ths | 3 | 4 | 5 | 6 | 7 |
|------------------------|---------|-------|-------|-------|-------|
| Weight Per Dozen, Lbs. | 1 | 1 1/8 | 1 3/8 | 1 1/2 | 1 7/8 |
| Per Dozen | \$6.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Inches, 16ths | 8 | 9 | 10 | 11 | 12 |
| Weight Per Dozen, Lbs. | 2 1/4 | 2 1/2 | 2 3/4 | 3 1/4 | 3 1/2 |
| Per Dozen | \$5.00 | 6.00 | 6.00 | 7.00 | 7.00 |
| Inches, 16ths | 13 | 14 | 15 | 16 | |
| Weight Per Dozen, Lbs. | 4 | 4 1/4 | 4 1/4 | 5 1/4 | |
| Per Dozen | \$8.25 | 8.25 | 9.50 | 9.50 | |
| Inches, 16ths | 18 | 20 | 22 | 24 | |
| Weight Per Dozen, Lbs. | 5 1/2 | 6 | 6 1/2 | 7 | |
| Per Dozen | \$12.00 | 14.00 | 16.00 | 18.00 | |
| Inches, 16ths | 26 | 28 | 30 | 32 | |
| Weight Per Dozen, Lbs. | 8 | 9 | 10 | 11 | |
| Per Dozen | \$21.00 | 24.00 | 27.00 | 30.00 | |

3 to 12/16, One Dozen; Larger Sizes, One-half Dozen in a Box.

PUGH**No. 72—Hand Made**

Best Crucible Steel, Carefully Tested, Average Length 8 1/2 in.

| Inches, 16ths | 4 | 5 | 6 | 7 | 8 |
|--------------------|---------|-------|-------|-------|-------|
| Weight Dozen, Lb. | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Per Dozen | \$11.52 | 11.52 | 11.52 | 11.52 | 11.52 |
| Inches, 16ths | 9 | 10 | 11 | 12 | |
| Weight Dozen, Lbs. | 2 1/4 | 2 1/2 | 2 3/4 | 3 | |
| Per Dozen | \$12.96 | 14.40 | 15.84 | 17.28 | |
| Inches, 16ths | 13 | 14 | 15 | 16 | |
| Weight Dozen, Lbs. | 3 1/4 | 3 3/4 | 4 1/4 | 4 1/2 | |
| Per Dozen | \$18.72 | 20.16 | 21.60 | 23.04 | |

One-half Dozen in a Box.

AUGER BITS

SNELL EXTRA

**No. 200—Double Cutter**

High Grade Solid Cast Steel, Full Polished.

| Inches, 16ths | 3 | 4 | 5 | 6 | 7 |
|-------------------------|--------|-------|-------|-------|-------|
| Length Over All, Inches | 7 1/2 | 7 3/4 | 7 3/4 | 7 3/4 | 8 |
| Weight Per Dozen, Lbs. | 3 | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| Per Dozen | \$6.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Inches, 16ths | 8 | 9 | 10 | 11 | 12 |
| Length Over All, Inches | 8 1/8 | 8 1/4 | 8 3/8 | 8 1/2 | 8 3/4 |
| Weight Per Dozen, Lbs. | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 |
| Per Dozen | \$5.00 | 6.00 | 6.00 | 7.00 | 7.00 |
| Inches, 16ths | 13 | 14 | 15 | 16 | |
| Length Over All, Inches | 8 3/4 | 8 3/4 | 9 | 9 | |
| Weight Per Dozen, Lbs. | 3 1/4 | 3 3/4 | 4 1/4 | 4 1/2 | |
| Per Dozen | \$8.25 | 8.25 | 9.50 | 9.50 | |

One-half Dozen in a Box.

MEPHISTO**No. 9—For Fast Boring**

Special Forged Steel, Carefully Hardened and Tempered, Coarse U Thread, will Bore through any Wood, Hard or Soft, or against the Grain without Pressure. Average Length 9 in.

| Inches, 16ths | 10 | 11 | 12 |
|------------------------|---------|-------|-------|
| Weight Per Dozen, Lbs. | 8 1/2 | 8 3/4 | 9 |
| Per Dozen | \$16.80 | 18.00 | 19.20 |

This bit is particularly adapted for Electricians' use. It can be used in Metal Ceilings without injuring the bit. Recommended for Electricians' Boring Machines.

One-half Dozen in a Box.

WATROUS SHIP**No. 16—For Car and Ship Work**

Forged Steel, Polished, Average Length 9 in.

| Inches, 16ths | 4 | 5 | 6 | 7 | 8 |
|------------------------|---------|-------|-------|-------|-------|
| Weight Per Dozen, Lbs. | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 |
| Per Dozen | \$6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| Inches, 16ths | 9 | 10 | 11 | 12 | |
| Weight Per Dozen, Lbs. | 3 | 3 1/2 | 4 | 5 | |
| Per Dozen | \$7.50 | 7.50 | 9.00 | 9.00 | |
| Inches, 16ths | 13 | 14 | 15 | 16 | |
| Weight Per Dozen, Lbs. | 5 1/4 | 5 1/2 | 5 3/4 | 6 | |
| Per Dozen | \$10.50 | 10.50 | 12.00 | 12.00 | |

4 to 16, One Dozen; Larger Sizes, One-half Dozen in a Box.

FORSTNER

Specially Adapted for Hardwood Working

Guided by its Circular Rim, instead of its Center. Will bore any arc of a circle. For core box patterns, veneers, scrolls, etc.

| Inches, 16ths | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----------------|--------|-------|-------|-------|-------|-------|-------|
| Length, Inches | 6 1/4 | 6 1/4 | 6 1/4 | 6 1/4 | 6 3/4 | 6 3/4 | 6 3/4 |
| Each | \$0.90 | .90 | 1.00 | 1.00 | 1.05 | 1.15 | 1.15 |
| Inches, 16ths | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Length, Inches | 6 3/4 | 7 1/4 | 7 1/4 | 7 1/4 | 7 1/4 | 7 3/4 | 7 3/4 |
| Each | \$1.20 | 1.30 | 1.40 | 1.40 | 1.70 | 1.70 | 1.80 |
| Inches, 16ths | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Length, Inches | 7 3/4 | 7 3/4 | 8 1/4 | 8 1/4 | 8 1/4 | 8 1/4 | 8 1/4 |
| Each | \$1.80 | 1.95 | 2.20 | 2.20 | 2.35 | 2.65 | 3.00 |

Note—These Bits can also be furnished with 1/2 in. Round Shanks for use in Boring Machines, when so ordered.

AUGER BIT SETS

IRWIN BORCHEST



No. DM.

Hardwood, Oil Finished Chest, Dovetailed Corners, Brass Hinges and Catches, Grooved Tills.

Irwin Solid Center Bits Forged throughout from One Solid Piece of Badenger Formula Steel, Double Cutter, Extension Lip, Highly Polished Twist and Shank.

Per Set

No. DM—32½ Quarters, 13 Bits, 1 Each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16/16ths, Weight Per Set 4½ Lbs. \$10.30

Per Set

No. AM—20½ Quarters, 9 Bits, 1 Each 4, 5, 6, 7, 8, 10, 12, 14 and 16/16ths in. and 1 Screw Driver Bit, Weight Per Set 3¼ Lbs. \$7.80

No. BBM—14 Quarters, 6 Bits, 1 Each 4, 6, 8, 10, 12 and 16/16ths in., Weight Per Set 3½ Lbs. 5.40

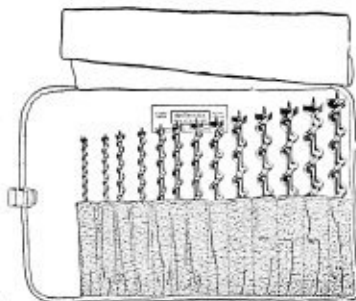
IRWIN BORKIT

Flannel Lined, Slate Colored Duck Roll Braid Bound, Web Strap, Nickel Plated Buckle, Flannel Lined Flat, Separate Pocket for Each Bit.

Contains No. 62T Genuine Irwin Auger Bits.

Per Set

No. DR—32½ Quarters, 13 Bits, 1 Each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16/16ths in., Weight Per Set 4 Lbs. \$9.80



Per Set

No. AR—20½ Quarters, 9 Bits, 1 Each 4, 5, 6, 7, 8, 10, 12, 14 and 16/16ths in. Auger Bits and 1 Screw Driver Bit, Weight Per Set 3¼ Lbs. \$7.30

No. BBR—14 Quarters, 6 Bits, 1 Each 4, 6, 8, 10, 12 and 16/16ths in., Weight Per Set 3 Lbs. 4.80

RUSSELL JENNINGS



Cut Showing Box with Lid Open.

Standard Double Threaded Screw Point, Extension Lip, Polished

The Standard Bit for use with Hand Brace; bores easily and cuts a smooth hole; recommended for general use, especially appreciated by Cabinet Makers.

Per Set

No. 2RJ Set—32½ Quarters, 13 Bits, 1 Each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16/16ths in., Weight Per Set 4½ Lbs. \$10.50

In Fancy Varnished Hardwood Boxes with Brass Hinges and Catches.

The Box Contains Three Sections. The Upper Section Contains 6 Bits, the Middle Section 4 Bits, and the Lower 3 Bits.

AUGER BIT SETS

SWAN HANDY



For Household Use

Polished Cast Steel Bits, Varnished Wood Box, with Slide Cover.

Per Set

No. B11—14 Quarters, 6 Bits, 1 Each 4, 6, 8, 10, 12 and 16/16ths in., Weight Per Set 2 Lbs. \$3.00

AUGER BIT ROLLS

Heavy Canvas, with Canton Flannel Lining

With Flap and Pocket for Holding Bits Separately. With Strap and Buckle.



Each

No. 1BR—Holds 13 Bits, ¼ to 1 in. \$1.50

EXPANSIVE BITS

CLARK PATENT



Cast Steel, Polished, Tool Steel Cutters

Per Dozen

No. 1—Large, 9½ in. Long, with 2 Cutters, One Boring from ¾ to 1¼ in., the Other 1¼ to 3 in., Weight Per Dozen 9 Lbs. \$26.00

No. 2—Small, 8 in. Long, with 2 Cutters, One Boring from ½ to ¾ in., the Other ¾ to 1½ in., Weight Per Dozen 3½ Lbs. 18.00

One in a Carton, One-half Dozen in a Box.

EXTRA CUTTERS FOR CLARK EXPANSIVE BITS

For No. 1 Large Bit

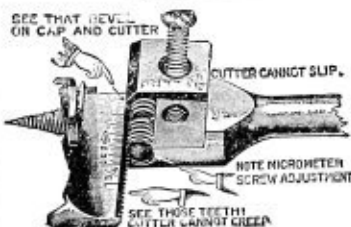
| Nos. | 3C | 4C | 5C | 6C |
|----------------|---------|---------|--------|--------|
| Boring, Inches | ¾ to 1¼ | 1¼ to 3 | 3 to 4 | 4 to 5 |
| Per Dozen | \$5.25 | 6.00 | 9.00 | 12.00 |

For No. 2 Small Bit

| Nos. | 1C | 21C |
|----------------|--------|---------|
| Boring, Inches | ½ to ¾ | ¾ to 1½ |
| Per Dozen | \$3.00 | 3.75 |

One-half Dozen in a Box.

J. E. JENNINGS ARROW HEAD



Micrometer Screw Adjustment

Cast Steel, Polished, Tool Steel Cutters.

Each

No. 1A—Large, 9½ in. Long, with 2 Cutters, One Boring ¾ to 1¼ in., the Other 1¼ to 3 in., Weight Dozen 8 Lbs. \$33.00

No. 2A—Small, 8½ in. Long, with 2 Cutters, One Boring ½ to 1½ in., the Other 1½ to 2 in., Weight Per Dozen 5 Lbs. 27.00

CUTTERS FOR ARROWHEAD EXPANSIVE BITS

For No. 1A—Large Bit

| Nos. | 3A | 4A | 5A |
|----------------|---------|---------|--------|
| Boring, Inches | ¾ to 1¼ | 1¼ to 3 | 3 to 4 |
| Per Dozen | \$5.25 | 6.00 | 12.00 |

For No. 2A—Small Bit

| Nos. | 1A | 2A |
|----------------|---------|---------|
| Boring, Inches | ½ to 1½ | 1½ to 2 |
| Per Dozen | \$5.00 | 5.00 |

One-half Dozen in a Box.

CAR BITS

SNELL



No. 206—Extra Quality.

Forged Crucible Steel, Full Polished 12 in. Twist, 18 in. Long Over All.

| | | | | |
|--------------------|---------|-------|-------|-------|
| Inches, 16ths | 4 | 5 | 6 | 7 |
| Weight Dozen, Lbs. | 2 1/4 | 2 3/4 | 3 1/8 | 3 3/8 |
| Per Dozen | \$11.25 | 11.25 | 11.25 | 11.25 |

| | | | | |
|--------------------|---------|-------|-------|-------|
| Inches, 16ths | 8 | 9 | 10 | 11 |
| Weight Dozen, Lbs. | 4 3/8 | 5 | 5 5/8 | 5 7/8 |
| Per Dozen | \$11.25 | 12.50 | 13.75 | 15.00 |

| | | | | |
|--------------------|---------|-------|-------|-------|
| Inches, 16ths | 12 | 13 | 14 | 15 |
| Weight Dozen, Lbs. | 6 3/4 | 7 3/8 | 8 3/8 | 9 |
| Per Dozen | \$16.25 | 17.50 | 19.00 | 20.50 |

| | | | | |
|--------------------|---------|-------|--------|--------|
| Inches, 16ths | 16 | 17 | 18 | 20 |
| Weight Dozen, Lbs. | 9 5/8 | 9 3/4 | 10 5/8 | 12 1/2 |
| Per Dozen | \$22.00 | 24.00 | 26.00 | 30.00 |

One-half Dozen in a Box.

IRWIN CARBOR



No. 55T—For Heavy Work

Forged from Special Analysis Steel, Tempered, Polished Twist and Shank, Single Cutter, One Side Lip, Solid Center, Solid Twist.

12 in. Twist, 18 in. Long Over All

| | | | | | | |
|-----------------|--------|------|------|-------|-------|-------|
| Inches, 16ths | 4 | 5 | 6 | 7 | 8 | 9 |
| Wt. Dozen, Lbs. | 3 | 3 | 4 | 4 | 5 | 6 |
| Per Dozen | \$9.00 | 9.00 | 9.00 | 10.00 | 11.25 | 12.50 |

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Inches, 16ths | 10 | 11 | 12 | 13 | 14 | 15 |
| Wt. Dozen, Lbs. | 7 | 7 | 8 | 9 | 10 | 10 |
| Per Dozen | \$13.75 | 15.00 | 16.25 | 17.50 | 19.00 | 20.50 |

| | | | | | |
|-----------------|---------|-------|-------|-------|-------|
| Inches, 16ths | 16 | 17 | 18 | 19 | 20 |
| Wt. Dozen, Lbs. | 11 | 12 | 13 | 13 | 14 |
| Per Dozen | \$22.00 | 24.00 | 26.00 | 28.00 | 30.00 |

One-half Dozen in a Box.

SHIP AUGER CAR BITS

FORD



No. 922—Single Cutter, with Screw

For Extra Deep Boring through Wood with Strong Grain or Rough Timber, Forged from Highest Grade Tool Steel, Tempered, Polished Twist and Shank, Brace Shank.

12 in. Twist, 18 in. Long Over All

| | | | | | |
|-----------------|---------|-------|-------|-------|-------|
| Inches, 16ths | 6 | 7 | 8 | 9 | 10 |
| Wt. Dozen, Lbs. | 4 | 4 1/2 | 5 1/2 | 6 1/2 | 7 1/2 |
| Per Dozen | \$11.00 | 11.00 | 11.00 | 11.00 | 11.00 |

| | | | | |
|-----------------|---------|-------|--------|-------|
| Inches, 16ths | 11 | 12 | 13 | 14 |
| Wt. Dozen, Lbs. | 9 | 10 | 10 1/2 | 13 |
| Per Dozen | \$12.00 | 12.00 | 13.00 | 13.00 |

| | | | | |
|-----------------|---------|--------|--------|--------|
| Inches, 16ths | 15 | 16 | 17 | 18 |
| Wt. Dozen, Lbs. | 14 1/2 | 15 1/2 | 16 1/2 | 17 1/2 |
| Per Dozen | \$14.50 | 14.50 | 16.00 | 16.00 |

One-half Dozen in a Box.

SHIP AUGERS

WATROUS



No. 15—With Screw.

Extra Cast Steel, Polished, Single Twist.

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Inches, 16ths | 6 | 7 | 8 | 9 | 10 |
| Length of Twist, In. | 10 | 10 | 10 | 12 | 12 |
| Length Over All, In. | 14 | 14 | 14 | 18 | 18 |
| Wt. Dozen, Lbs. | 4 | 4 1/2 | 5 1/2 | 6 1/2 | 7 1/2 |
| Per Dozen | \$11.00 | 11.00 | 11.00 | 11.00 | 11.00 |

| | | | | | |
|----------------------|---------|-------|--------|-------|--------|
| Inches, 16ths | 11 | 12 | 13 | 14 | 15 |
| Length of Twist, In. | 12 | 12 | 12 | 12 | 12 |
| Length Over All, In. | 18 | 18 | 18 | 18 | 18 |
| Wt. Dozen, Lbs. | 9 | 10 | 10 1/2 | 13 | 14 1/2 |
| Per Dozen | \$12.00 | 12.00 | 13.00 | 13.00 | 14.50 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Inches, 16ths | 16 | 17 | 18 | 19 | 20 |
| Length of Twist, In. | 12 | 15 | 15 | 15 | 15 |
| Length Over All, In. | 18 | 20 | 20 | 20 | 20 |
| Wt. Dozen, Lbs. | 15 1/2 | 20 | 22 | 23 | 24 |
| Per Dozen | \$14.50 | 16.00 | 16.00 | 18.00 | 18.00 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Inches, 16ths | 21 | 22 | 23 | 24 |
| Length of Twist, In. | 15 | 15 | 15 | 15 |
| Length Over All, In. | 20 | 20 | 20 | 20 |
| Wt. Dozen, Lbs. | 29 | 32 | 37 | 39 |
| Per Dozen | \$20.00 | 20.00 | 23.00 | 23.00 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Inches, 16ths | 25 | 26 | 27 | 28 |
| Length of Twist, In. | 15 | 15 | 15 | 15 |
| Length Over All, In. | 20 | 20 | 20 | 20 |
| Wt. Dozen, Lbs. | 39 | 39 | 44 | 44 |
| Per Dozen | \$27.00 | 27.00 | 32.00 | 32.00 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Inches, 16ths | 29 | 30 | 31 | 32 |
| Length of Twist, In. | 15 | 15 | 15 | 15 |
| Length Over All, In. | 20 | 20 | 20 | 20 |
| Wt. Dozen, Lbs. | 48 | 48 | 54 | 54 |
| Per Dozen | \$38.00 | 38.00 | 45.00 | 45.00 |

4 to 16/16ths, One-half Dozen; Larger Sizes, One-quarter Dozen in a Box.



No. 14—Without Screw

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Inches, 16ths | 8 | 9 | 10 | 11 | 12 |
| Length of Twist, In. | 10 | 12 | 12 | 12 | 12 |
| Length Over All, In. | 14 | 18 | 18 | 18 | 18 |
| Wt. Dozen, Lbs. | 5 1/2 | 6 1/2 | 7 1/2 | 9 | 10 |
| Per Dozen | \$13.20 | 13.20 | 13.20 | 14.40 | 14.40 |

| | | | | |
|----------------------|---------|-------|--------|--------|
| Inches, 16ths | 13 | 14 | 15 | 16 |
| Length of Twist, In. | 12 | 12 | 12 | 12 |
| Length Over All, In. | 18 | 18 | 18 | 18 |
| Wt. Dozen, Lbs. | 10 1/2 | 13 | 14 1/2 | 15 1/2 |
| Per Dozen | \$15.60 | 15.60 | 17.40 | 17.40 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Inches, 16ths | 17 | 18 | 19 | 20 |
| Length of Twist, In. | 15 | 15 | 15 | 15 |
| Length Over All, In. | 20 | 20 | 20 | 20 |
| Wt. Dozen, Lbs. | 20 | 22 | 23 | 24 |
| Per Dozen | \$19.20 | 19.20 | 21.60 | 21.60 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Inches, 16ths | 21 | 22 | 23 | 24 |
| Length of Twist, In. | 15 | 15 | 15 | 15 |
| Length Over All, In. | 20 | 20 | 20 | 20 |
| Wt. Dozen, Lbs. | 29 | 32 | 37 | 39 |
| Per Dozen | \$24.00 | 24.00 | 27.60 | 27.60 |

8 to 16/16ths, One-half Dozen; 17 to 24/16ths, One-quarter Dozen in a Box.

ELECTRICIANS BITS



IRWIN "SPEEDBOR"

No. 3E—Bore Through 1 in. Wood in 10 Turns

Solid Center, Forged from One Solid Piece of Steel, Tempered, Polished Bit and Shank, Single Cutter.

| | | | |
|-------------------------|---------|-------|-------|
| Inches, 16ths | 10 | 11 | 12 |
| Length of Twist, Inches | 6 | 6 | 6 |
| Full Length, Inches | 10 | 10 | 10 |
| Weight Dozen, Lbs. | 3 3/4 | 3 3/4 | 3 3/4 |
| Per Dozen | \$14.00 | 14.00 | 14.00 |

One-half Dozen in a Box.

CARPENTERS NUT AUGERS

SNELL



No. 240—With Brass Nut

Best Quality Crucible Steel, Length of Twist 7 to 8 in., 2 in. and Smaller Full Polished.

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size, Inches | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
| Length Over All, In. | 16 | 16 | 16 | 17 | 17 |
| Weight Dozen, Lbs. | 4 3/4 | 5 3/4 | 7 | 8 3/4 | 9 1/2 |
| Per Dozen | \$10.00 | 10.00 | 11.00 | 13.00 | 15.00 |

| | | | | | |
|----------------------|---------|--------|-------|--------|--------|
| Size, Inches | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 3/4 |
| Length Over All, In. | 18 | 18 | 18 | 18 | 19 |
| Weight Dozen, Lbs. | 10 1/2 | 11 3/4 | 13 | 15 1/2 | 17 1/2 |
| Per Dozen | \$17.00 | 19.00 | 21.00 | 24.00 | 28.00 |

| | | | | | |
|----------------------|---------|--------|--------|-------|-------|
| Size, Inches | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 |
| Length Over All, In. | 19 | 20 | 20 | 20 | 20 |
| Weight Dozen, Lbs. | 20 | 27 1/2 | 30 1/2 | 35 | 40 |
| Per Dozen | \$32.00 | 42.00 | 52.00 | 72.00 | 92.00 |

| | | | | |
|----------------------|----------|--------|--------|--------|
| Size, Inches | 3 1/4 | 3 1/2 | 3 3/4 | 4 |
| Length Over All, In. | 20 | 20 | 20 | 20 |
| Weight Dozen, Lbs. | 43 | 48 | 52 | 54 3/4 |
| Per Dozen | \$122.00 | 152.00 | 182.00 | 212.00 |

1/2 to 2 in., One-half Dozen in a Box; Larger Sizes
One-twelfth Dozen in a Package.

BORING MACHINE AUGERS

SNELL



No. 243—For Hand Boring Machines

Best Quality Crucible Steel, Length of Twist 7 to 8 in., 12 in. Long Over All, Polished.

| | | | | |
|------------------------|---------|-------|-------|-------|
| Size, Inches | 1/2 | 5/8 | 3/4 | 7/8 |
| Weight Per Dozen, Lbs. | 5 3/4 | 6 3/4 | 7 | 7 1/4 |
| Per Dozen | \$10.00 | 10.00 | 11.00 | 13.00 |

| | | | | |
|------------------------|---------|-------|-------|--------|
| Size, Inches | 1 | 1 1/8 | 1 1/4 | 1 1/2 |
| Weight Per Dozen, Lbs. | 7 1/2 | 8 1/2 | 9 3/4 | 10 3/4 |
| Per Dozen | \$15.00 | 17.00 | 19.00 | 21.00 |

| | | | |
|------------------------|---------|--------|--------|
| Size, Inches | 1 1/2 | 1 3/4 | 2 |
| Weight Per Dozen, Lbs. | 11 | 13 3/4 | 15 1/2 |
| Per Dozen | \$24.00 | 28.00 | 32.00 |

1/2 to 3/4 in., One-half Dozen; 7/8 to 2 in., One-quarter
Dozen in a Box.

MACHINE BITS

IRWIN CHUCKBOR



No. 62R—With 6 in. Twist

Hammer-forged from special analysis steel, refined and improved during the Irwin Process. They are tempered and drawn especially for service in power machines.

Shanks 1/2 in. diameter, 2 in. long.

| | | | | | |
|--------------------|--------|-------|------|-------|-------|
| Size, Inches | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
| Weight Dozen, Lbs. | 1 1/2 | 1 3/4 | 2 | 2 3/4 | 2 1/2 |
| Per Dozen | \$7.80 | 8.40 | 9.00 | 9.90 | 10.80 |

| | | | | |
|--------------------|---------|-------|-------|-------|
| Size, Inches | 5/16 | 3/8 | 7/16 | 1/2 |
| Weight Dozen, Lbs. | 3 | 3 1/2 | 4 | 4 1/2 |
| Per Dozen | \$12.00 | 13.20 | 14.40 | 15.60 |

| | | | | |
|--------------------|---------|-------|-------|-------|
| Size, Inches | 1/2 | 5/8 | 3/4 | 1 |
| Weight Dozen, Lbs. | 5 | 5 1/2 | 6 | 6 1/2 |
| Per Dozen | \$16.80 | 18.00 | 19.20 | 20.40 |

These bits are used in the chucks of power machines. They have a screw with threads pitched to feed the bit into the wood at a speed suitable for general work; two spurs of length in keeping with the pitch of the thread of screw; two cutters on extension lips that offer ample material for wear, and two throats made open to permit the easy flow of chips.

One-half Dozen in a Box.

MACHINE BITS

MORSE



No. 355—Straight Shank

High Grade Steel, Polished, for Hard or Soft Wood.

| | | | | | | | |
|----------------------|--------|-------|-------|-------|-------|-------|-------|
| Size, Inches | 1/8 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
| Length Over All, In. | 3 | 3 1/4 | 3 1/2 | 3 3/4 | 4 | 4 1/4 | 4 1/2 |
| Length Twist, Inches | 1 1/2 | 2 1/2 | 2 3/8 | 2 1/2 | 2 3/4 | 2 3/4 | 3 3/8 |
| Each | \$0.40 | .45 | .50 | .55 | .60 | .65 | .70 |

| | | | | | | | |
|----------------------|--------|-------|-------|-------|-------|-------|-------|
| Size, Inches | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 |
| Length Over All, In. | 4 3/4 | 5 | 5 1/4 | 5 1/2 | 5 3/4 | 6 | 6 1/4 |
| Length Twist, Inches | 3 3/4 | 3 3/8 | 3 3/4 | 4 1/4 | 4 3/4 | 4 3/4 | 4 3/4 |
| Each | \$0.75 | .80 | .85 | .90 | 1.00 | 1.10 | 1.10 |

| | | | | | | | |
|----------------------|--------|-------|-------|-------|-------|-------|-------|
| Size, Inches | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 3/4 | 1 7/8 | 2 |
| Length Over All, In. | 6 3/4 | 6 3/4 | 6 3/4 | 6 1/2 | 6 3/4 | 6 3/4 | 7 |
| Length Twist, Inches | 4 3/4 | 4 1/4 | 4 1/4 | 4 3/4 | 4 3/4 | 5 | 5 3/8 |
| Each | \$1.20 | 1.30 | 1.40 | 1.50 | 1.60 | 1.70 | 1.70 |

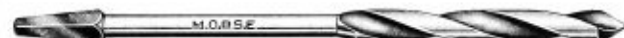
| | | | | | | | |
|----------------------|--------|-------|-------|-------|-------|-------|-------|
| Size, Inches | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | 3 1/4 | 3 1/2 |
| Length Over All, In. | 7 1/4 | 7 1/2 | 7 3/4 | 8 | 8 1/4 | 8 1/2 | 8 3/4 |
| Length Twist, Inches | 5 1/2 | 5 1/2 | 5 3/4 | 6 1/4 | 6 3/4 | 6 3/4 | 6 3/4 |
| Each | \$1.80 | 1.90 | 2.00 | 2.10 | 2.30 | 2.50 | 2.50 |

| | | | | | | | |
|----------------------|--------|-------|-------|-------|--------|--------|--------|
| Size, Inches | 3 1/2 | 4 | 4 1/2 | 5 | 5 1/2 | 6 | 6 1/2 |
| Length Over All, In. | 8 3/4 | 9 | 9 1/4 | 9 1/2 | 11 1/4 | 11 1/4 | 11 3/4 |
| Length Twist, Inches | 6 3/4 | 6 1/2 | 7 | 7 3/8 | 8 1/2 | 8 1/2 | 8 3/4 |
| Each | \$2.70 | 2.90 | 3.00 | 3.25 | 3.75 | 4.25 | 4.25 |

| | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|
| Size, Inches | 1 1/2 | 1 3/4 | 1 7/8 | 2 | 2 1/8 | 2 1/4 | 2 1/2 |
| Length Over All, In. | 12 | 12 1/2 | 12 3/4 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 |
| Length Twist, Inches | 9 | 9 3/8 | 9 3/8 | 9 3/8 | 9 3/8 | 9 3/8 | 9 3/8 |
| Each | \$4.75 | 5.25 | 5.75 | 6.25 | 7.25 | 8.25 | 8.25 |

WOOD BORING DRILLS

MORSE



No. 392—Bit Brace Shank

Designed for Wood Boring, Sizes in 32nds of an Inch.

| | | | | | |
|----------------|--------|------|-------|-------|-------|
| Size | 2 | 3 | 4 | 5 | 6 |
| Length, Inches | 3 1/2 | 4 | 4 3/4 | 5 1/4 | 5 1/2 |
| Per Dozen | \$3.25 | 3.25 | 3.25 | 3.50 | 4.00 |

| | | | | | |
|----------------|--------|-------|------|-------|-------|
| Size | 7 | 8 | 9 | 10 | 11 |
| Length, Inches | 6 1/4 | 6 3/8 | 7 | 7 1/2 | 7 3/4 |
| Per Dozen | \$4.50 | 5.00 | 5.50 | 6.00 | 6.50 |

| | | | | | |
|----------------|--------|-------|-------|-------|------|
| Size | 12 | 13 | 14 | 15 | 16 |
| Length, Inches | 8 | 8 1/4 | 8 1/2 | 8 3/4 | 9 |
| Per Dozen | \$7.00 | 7.50 | 8.00 | 8.75 | 9.50 |

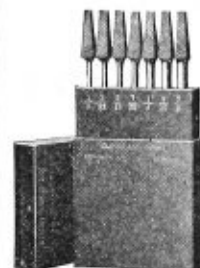
| | | | | | |
|----------------|---------|-------|-------|-------|-------|
| Size | 17 | 18 | 19 | 20 | 22 |
| Length, Inches | 9 | 9 3/8 | 9 1/2 | 9 3/4 | 9 3/4 |
| Per Dozen | \$10.25 | 11.00 | 11.75 | 12.50 | 14.50 |

| | | | | | |
|----------------|---------|-------|-------|-------|-------|
| Size | 24 | 26 | 28 | 30 | 32 |
| Length, Inches | 9 3/4 | 9 3/4 | 10 | 10 | 10 |
| Per Dozen | \$16.50 | 18.50 | 21.00 | 24.00 | 27.00 |

These drills cut freely and rapidly in wood and will drill straight any way of the grain without splitting.

WOOD DRILL SETS

MORSE



For Hard or Soft Wood

| No. | Set | Per Set |
|---------|--|---------|
| No. 13B | Set — Consists of 7 High Grade Drill Bits for Wood Only, 1 Each 1/8, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4 in. Put Up in a Neat Leatherette Case. Each Size Drill is Marked on the Case in Gold. Weight Per Set 3/4 Lbs. | \$3.70 |

BELL HANGERS AND ELECTRICIANS BITS



No. 114E—Carbon Steel

For Wood, Bit Not Injured by Contact with Metal.

12 Inches Long

| | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Per Dozen | \$7.50 | 8.00 | 8.75 | 9.50 | 10.50 |
| Size, Inches | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{4}$ | $\frac{1}{8}$ |
| Per Dozen | \$12.00 | 13.50 | 15.25 | 17.00 | 19.00 |

18 Inches Long

| | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Per Dozen | \$10.00 | 10.50 | 11.00 | 12.00 | 13.00 |
| Size, Inches | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{4}$ | $\frac{1}{8}$ |
| Per Dozen | \$14.50 | 16.00 | 17.75 | 19.50 | 21.50 |

24 Inches Long

| | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Per Dozen | \$12.50 | 13.00 | 13.50 | 14.50 | 15.50 |
| Size, Inches | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{4}$ | $\frac{1}{8}$ |
| Per Dozen | \$16.00 | 18.50 | 20.25 | 22.00 | 24.00 |

$\frac{3}{8}$ to $\frac{1}{2}$ in., One Dozen; $\frac{1}{2}$ to $\frac{3}{4}$ in., One-half Dozen; $\frac{3}{4}$ in., One-quarter Dozen in a Wooden Box.

GIMLET BITS

STANDARD PATTERN



No. 240—Hammer Forged from Best Quality Cast Steel

Hardened and Drawn to a Very Fine Spring Temper the Entire Length of Bit.

| | | | | | | |
|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Inches, 32nds | 2 | 3 | 4 | 5 | 6 | 7 |
| Av. Length, Inches | 4 $\frac{1}{4}$ | 4 $\frac{3}{8}$ | 4 $\frac{1}{2}$ | 5 | 5 $\frac{1}{4}$ | 5 $\frac{1}{2}$ |
| Av. Wt. Dozen, Lbs. | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Per Dozen | \$2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| Inches, 32nds | 8 | 9 | 10 | 11 | 12 | |
| Av. Length, Inches | 5 $\frac{1}{2}$ | 5 $\frac{3}{4}$ | 5 $\frac{3}{4}$ | 6 | 6 | |
| Av. Wt. Dozen, Lbs. | $\frac{7}{8}$ | $\frac{7}{8}$ | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{4}$ | |
| Per Dozen | \$2.00 | 2.40 | 2.40 | 3.00 | 3.00 | |

One Dozen in a Box.

DIAMOND COUNTERSUNK BITS

WORMER POINT



No. 280—Solid Crucible Steel, Straw Finish

| | | | | | |
|---------------------------|---------------|---------------|-----------------|-----------------|-----------------|
| Size Nos. | 0 | 1 | 2 | 3 | 4 |
| Diam. Point, Inches | 5/32 | 6/32 | 7/32 | 8/32 | 9/32 |
| Point to Countersink, In. | $\frac{3}{4}$ | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ |
| Dia. Countersink, In. | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Weight Dozen, Oz. | 10 | 11 | 12 | 14 | 17 |
| Per Dozen | \$3.30 | 3.30 | 3.30 | 3.30 | 3.30 |

One Dozen in a Box.

CENTER BITS

SNELL



Forged from Finest Tool Steel

Hardened and Tempered, Bright Finish.

| | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Size, Inches | $\frac{3}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{3}{4}$ |
| Length, Inches | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 4 $\frac{3}{4}$ | 4 $\frac{3}{4}$ |
| Wt. Dozen, Lbs. | 1 | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 2 | 2 $\frac{1}{2}$ |
| Per Dozen | \$3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| Size, Inches | $\frac{7}{8}$ | 1 | 1 $\frac{1}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{3}{8}$ |
| Length, Inches | 5 | 5 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 6 |
| Wt. Dozen, Lbs. | 3 | 3 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 4 $\frac{1}{4}$ | 4 $\frac{1}{2}$ |
| Per Dozen | \$3.00 | 3.00 | 4.00 | 4.80 | 5.60 |
| Size, Inches | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 1 $\frac{7}{8}$ | 2 |
| Length, Inches | 6 | 6 | 6 | 6 | 6 |
| Wt. Dozen, Lbs. | 5 | 5 $\frac{1}{2}$ | 5 $\frac{3}{8}$ | 6 | 6 $\frac{1}{2}$ |
| Per Dozen | \$6.40 | 7.60 | 8.40 | 9.20 | 10.00 |

One Dozen in a Box.

PLUMBERS BITS

MEPHISTO



For Plumbers, Steam Fitters and Electricians

Drop Forged Steel, Hand Filed, Tempered and Polished, 5 $\frac{1}{2}$ in. Long, 3 in. Twist. For use in Bit Brace or Electricians Boring Machines.

| | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Size, Inches | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Wt. Dozen, Lbs. | 1 $\frac{1}{2}$ | 2 | 2 $\frac{1}{2}$ | 3 | 3 $\frac{1}{2}$ |
| Per Dozen | \$14.40 | 15.60 | 16.80 | 18.00 | 19.20 |
| Size, Inches | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | 1 | 1 $\frac{1}{8}$ |
| Wt. Dozen, Lbs. | 4 | 4 $\frac{1}{2}$ | 5 | 5 $\frac{1}{2}$ | 6 $\frac{1}{2}$ |
| Per Dozen | \$20.40 | 21.60 | 22.80 | 24.00 | 28.00 |
| Size, Inches | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 | |
| Wt. Dozen, Lbs. | 8 | 9 | 10 | 12 | |
| Per Dozen | \$36.00 | 39.60 | 52.80 | 72.00 | |

One in a Carton.

NAIL GIMLETS

Single Cut

High Grade Steel, Well Finished, Hardwood Handle.

Per Dozen

No. 275—Assorted $\frac{1}{8}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ in., Weight Per Dozen 7 Oz. \$2.50

Three Dozen in a Box.



Double Cut

Cast Steel, Hardened, Iron Handle.

Per Dozen

No. 470—Assorted $\frac{1}{8}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ in., Wt. Per Dozen 17 Oz. \$1.00

Three Dozen in a Box.



ELECTRICIANS GIMLETS

SNELL



No. 85—Single Cut

High Grade Steel, Hardwood Handle.

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| Size, Inches | $\frac{1}{4}$ x 18 | $\frac{3}{8}$ x 18 | $\frac{1}{2}$ x 24 | $\frac{3}{4}$ x 24 |
| Weight Dozen, Lbs. | 3 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 4 | 5 |
| Per Dozen | \$7.00 | 7.00 | 9.00 | 9.00 |

One Dozen in a Box.

BIT GAUGES

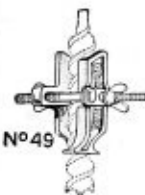
STANLEY ADJUSTABLE

Iron, Nickel Plated

This Gauge can be attached to bits of any size up to 1 in. in diameter. Two Projections engage with the twist of the bit, so that it can be accurately set for the bit to bore at any depth required. Each

No. 49—2 $\frac{1}{2}$ in. Long, Weight Each 6 $\frac{1}{2}$ Oz. \$0.90

One in a Box.



MILLERS FALLS BALL BEARING



Steel, Nickel Plated

Contact ball revolves on ball bearings which reduces friction to a minimum and prevents defacing the most delicate material.

Each No. 2—5 $\frac{3}{4}$ in. Long, Weight Each 2 Oz. \$0.50

Six in a Box.

HOLLOW AUGERS

STEARNS REVOLVING



With Adjustable Stop

Adjustable Depth Gauge and Cutter, Gun Metal Finished Disc, Japanned Barrel, Cold Rolled Steel Shank, Tool Steel Knife. Each

No. 4—Cuts 9 Sizes, $\frac{3}{8}$ to 1 in., Weight Each 1 $\frac{1}{2}$ Lbs. \$2.00
Two in a Box.

MILLERS FALLS



Adjustable

Malleable Iron Body, Frame Enamelled Red and Black, Bright Parts Polished, Steel Knife Carefully Tempered and Sharpened, Steel Adjusting Screw, Graduated Index, Stop Gauge for Regulating the Length of Tenons. Each

No. 3—Cuts $\frac{1}{4}$ in. to 1 $\frac{1}{4}$ in. Tenons, Weight Each $\frac{3}{4}$ Lb. \$6.75
One in a Box.**SPOKE TRIMMERS**

MILLERS FALLS



With Adjustable Stop Gauge

Black Enamelled Iron Frame, Nickeled Bit Shank, Adjustable Knife, Sharpened Ready for Use.

Adjustable Stop Gauge Clamps with Thumb Screw. Each

No. 101—Cuts Round Stock up to 1 $\frac{1}{8}$ in. and Square Stock up to 1 $\frac{1}{8}$ in., Weight Each $\frac{1}{2}$ Lbs. \$1.00No. 102—Cuts Round Stock up to 3 in. and Square Stock up to 2 $\frac{1}{2}$ in., Weight Each 1 $\frac{1}{2}$ Lbs. 1.35
No. 101, Three; No. 102, Two in a Box.**PLUG CUTTERS**

HARGRAVE



Tempered Tool Steel, Polished

For Cutting Plugs where it is Necessary to Cover Heads of Screws on All Work Requiring a Fine Finish. Full Polished, Length 5 in.

| Nos. | 357 | 358 | 359 |
|-----------------------|---------------|---------------|---------------|
| Diameter, Inches | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{5}{8}$ |
| Weight Per Dozen, Oz. | 14 | 19 | 22 |
| Per Dozen | \$7.00 | 7.50 | 8.00 |

One-half Dozen in a Box.

DOWEL SHARPENERS

STANLEY



Steel, Nickel Plated

No. 22—Weight Each 2 Oz. \$0.40

This is a very practical little tool for Pattern Makers, Cabinet Makers and other Wood Workers. It is used in a bit brace for pointing the ends of wood dowels so they will drive more readily.

Six in a Box.

DOWEL PLATES

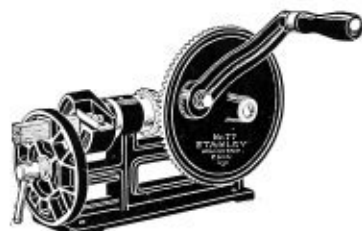
Forged Steel, Polished

No. 78—4 Holes, $\frac{1}{4}$ to $\frac{1}{2}$ in., Weight Per Dozen 11 $\frac{1}{4}$ Lbs. \$7.50

One-half Dozen in a Box.

DOWEL AND ROD TURNING MACHINE

STANLEY



For Pattern, Cabinet and Furniture Makers and Manual Training Schools

Cuts Dowels various sizes in any length.

Operated by hand and the crank can be adjusted for a long or short throw giving power or speed to the machine as desired.

No. 77—Complete with Cutter Head for Making Dowels or Rods $\frac{3}{8}$ in. Diameter. \$12.50Extra Heads with Cutters— $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, 1 or $1\frac{1}{2}$ in. 1.00

When Ordering Always State Size Wanted.

One in a Box.

DOWELING JIGS

STANLEY

For boring Dowel Holes in the edge, end or surface of work up to 3 in. in thickness, also used as a bit guide in mortising. All metal, Nickel Plated. Weight each 1 $\frac{1}{2}$ lbs.No. 59—Complete with 5 Guides, $\frac{1}{4}$ to $\frac{1}{2}$ in. \$2.80No. 60—Complete with 9 Guides, $\frac{1}{4}$ to $\frac{3}{4}$ in. 4.05

One in a Box.

AUTOMATIC DRILLS

YANKEE



Knurled Handle

Steel and Brass, Nickel Plated, Magazine in Handle for Holding Drill Points. Each

No. 41—11 3/8 in. Long, Complete with 8 Drill Points

5/16 to 1 1/4 in., Weight Each 10 1/2 Oz. \$3.00

Extra Springs .20

Has ratchet movement which can be used to advantage in hard or tough wood. The drill points are in plain sight when magazine is open.

One in a Box.



With Ratchet Movement

Steel and Brass Construction, Nickel Plated Magazine in Handle for Holding Drills. Each

No. 40—10 3/4 in. Long, Complete with 8 Drill Points,

5/16 to 1 1/4 in., Weight Each 10 Oz. \$3.25

Extra Springs .20

The drill point stands still during upward movement of handle, has ratchet movement for hard or tough wood.

One in a Box.



Adjustable Tension

Steel and Brass Construction, Nickel Plated Magazine in Handle for Holding Drills. Each

No. 44—11 1/4 in. Long, Complete with 8 Drill Points

5/16 to 1 1/4 in., Weight Each 12 Oz. \$3.50

Extra Springs .20

The cap on top of drill has a screw attached to it, by revolving which the spring is made longer or shorter and as a result weaker or stronger to suit work in hand and save breakage of drill points.

One in a Box.

GOODELL-PRATT



Dull Nickel Finish

Each

No. 62—Length 10 in., Polished Hardwood Handle, with 8 Fluted Drills, 5/16 to 1 1/4 in., Weight Each

8 Oz. \$1.65

This drill is made to sell at a popular price but in mechanical construction is equal to any tool of its kind.

One in a Box.

GOODELL-PRATT MR. PUNCH



Magazine Handle

Each

No. 185—Length 10 in., All Exposed Metal Parts Nickel Plated and Polished, 8 Fluted Drill Points,

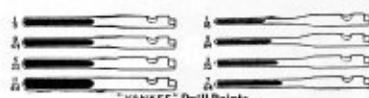
5/16 to 1 1/4 in. Diameter in Magazine Head with Each Size Marked, Weight Each 8 Oz. \$2.75

This drill embodies all the special features required in an automatic drill. The center nut, which is the most important part of any spiral-driven tool, is made of a very hard grade of brass and will give lasting service.

One in a Box.

AUTOMATIC DRILL POINTS

FOR YANKEE AUTOMATIC DRILLS



Illustrations Half Size.

Assorted Sizes

Per Set

No. 40P Set—Consist of 8 Drill Points, 1/8 to 1 1/4 in., as Illustrated Above. \$1.20

One Set in a Box.

Straight Sizes

Size, In... 1/8 5/16 3/8 1/2 5/8 3/4 7/8 1

Per Dozen. \$1.80 1.50 1.50 1.50 1.50 1.50 1.50 1.50

One Dozen in a Package.

RECIPROCATING DRILLS

YANKEE



For Metal or Wood

Tool Steel Spiral, Ball Bearing Hardwood Handle, Nickel Plated Chuck and Driver, will hold any Drill with Shank 5/8 in. Diameter or Less, without Drills. Each

No. 50—16 in. Long, without Drill Point, Traverse of Driver 8 1/2 in., Weight Each 1 1/4 Lbs. \$4.25

Designed for use in drilling in steel, iron, brass and other metals as well as all varieties of woods.

One in a Box.

GOODELL-PRATT



For Metal or Wood

Polished Hardwood Traveling Handle and Head, Three-Jaw Chuck, will hold up to 1/4 in. Round Shanks, without Drills. Each

No. 0—16 1/2 in. Long, Weight Each 15 Oz. \$3.00

One in a Box.

PUSH BRACES

YANKEE



Right and Left Hand Ratchet and Rigid

Nickel Plated Steel, Knurled Grip, Polished Hardwood Handle, Malleable Iron Chuck, Forged Steel Jaws. Each

No. 75—16 1/4 in. Long Closed, 23 1/2 in. when Extended, Will Hold Round or Square Shank Drills

Up to 1/2 in., Weight Each 2 1/4 Lbs. \$6.00

Holds all the small tools used in a bit brace. Operated by pushing the handle to revolve the tools.

One in a Box.

LIGHTNING BRACES

REIDS



For Right or Left or One Way

Each

No. 1—Length with Bit when Closed 18 1/2 in., when Extended 29 in., Nickel Plated Cylinder,

Lignumvitae Head and Handle, Complete with One Screw Driver Bit, Weight Each 1 Lb. \$5.80

This tool is designed for screw driving and boring. They are quick in their work and can be used with great force. They are used automatically running the bit backward and forward to drive or withdraw a screw.

One in a Box.

SCREW DRIVERS

YANKEE IMPROVED SPIRAL RATCHET

The New Yankee Spiral Screw Drivers are made with Lock-Collar, Sleeve and Cylinder Keyed together making these Parts Immovable.

A new driving nut, a third longer than old type gives longer wear. Ratchet pawls, lengthened and strengthened cannot break, bend or get out of order.



Regular Pattern, Right or Left Hand and Rigid

Nickel Plated Parts, Polished Hardwood Handle, Complete with 3 Sizes of Bits.

| Nos. | 30A | 31A |
|-------------------------|--------|--------|
| Length Extended, Inches | 19 1/4 | 26 1/4 |
| Length Closed, Inches | 13 1/2 | 17 1/2 |
| Weight Each, Lbs. | 1 1/8 | 1 1/2 |
| Each | \$3.50 | 4.30 |

No. 31A Driver is of same design as No. 30A but is made considerably heavier and stronger throughout, for use in car shops, etc., where heavy screws are required to be driven or drawn.

One in a Box.

YANKEE QUICK RETURN SPIRAL RATCHET



Right or Left Hand and Rigid

Nickel Plated Parts, Polished Hardwood Handle, Complete with 3 Sizes of Bits.

| Nos. | 130A | 131A |
|-------------------------|--------|--------|
| Length Extended, Inches | 20 1/2 | 28 |
| Length Closed, Inches | 15 | 19 1/2 |
| Weight Each, Lbs. | 1 1/8 | 1 1/2 |
| Each | \$3.75 | 5.00 |

These are the regular Nos. 30A and 31A Yankee Screw Drivers with a spring added in handle as shown in cut, which causes the handle to come back for the next push, in driving screws in and out. It is a "quick return" and more rapid as well convenient in practical use, than pulling the handle back.

One in a Box.

YANKEE POCKET SPIRAL RATCHET



Light Pattern, Right or Left Hand and Rigid

Each

No. 35—Length with Bit in Chuck when Closed 9 1/4 in., Full Length when Extended 12 3/4 in., Nickel Plated Parts, Polished Hardwood Handle, Complete with 3 Sizes of Straight Bits, Weight Each 10 Oz. \$2.50

No. 135—Same as No. 35, but with Spring in Handle which Causes the Handle to Come Back for the Next Push, in Driving Screws In or Out, it is a "Quick Return" and More Rapid in Practical Use than Pulling the Handle Back. 3.00

Intended for electrical workers, cabinet makers, carpenters and mechanics having a large number of small screws to drive.

One in a Box.

YANKEE SPIRAL RATCHET



For Driving Screws Only. Right Hand Only and Rigid

Nickel Plated Parts, Polished Hardwood Handle, Complete with 3 Sizes of Bits.

| Nos. | 25 | 26 | 27 |
|-------------------------|--------|--------|--------|
| Length Extended, Inches | 13 3/4 | 20 1/4 | 26 3/4 |
| Length Closed, Inches | 10 1/2 | 14 1/2 | 18 1/4 |
| Weight Each, Lbs. | 3/4 | 1 1/8 | 2 |
| Each | \$2.40 | 3.00 | 3.75 |

One in a Box.

SCREW DRIVERS

MILLERS FALLS SPIRAL RATCHET



Right and Left Hand and Rigid

Steel Spiral Accurately Machined, Hardened Tool Steel Ratchet Pawls, Stained Hardwood Handle, Metal Parts Nickel Plated.

| Nos. | 67 | 61 | 62 |
|-------------------------|--------|--------|--------|
| Length Extended, Inches | 12 5/8 | 20 1/2 | 26 1/4 |
| Length Closed, Inches | 9 3/8 | 14 1/4 | 17 1/4 |
| Weight Each, Lbs. | 5/8 | 1 1/8 | 1 1/2 |
| Each | \$2.30 | 3.10 | 4.15 |

The spiral locking device is of new design, positive in action and especially rigid. The several actions are plainly marked on the shifter sleeve.

One in a Box.

MILLERS FALLS SPRING SPIRAL RATCHET



Right and Left Hand and Rigid

Steel Spiral Accurately Machined, Hardened Tool Steel Ratchet Pawls, Stained Hardwood Handle, Metal Parts Nickel Plated.

| Nos. | 670 | 610 | 620 |
|-------------------------|--------|--------|--------|
| Length Extended, Inches | 11 3/8 | 18 3/8 | 24 1/2 |
| Length Closed, Inches | 8 3/8 | 12 3/8 | 16 1/8 |
| Weight Each, Lbs. | 1 1/8 | 1 1/4 | 1 3/4 |
| Each | \$2.75 | 3.50 | 4.75 |

These are similar to the Nos. 61, 62 and 67 Screw Drivers with addition of a spring in the handle to cause the handle to come back for the next push in driving screws in or out, which is more rapid and convenient than pulling the handle back.

One in a Box.

SCREW DRIVER BITS

YANKEE



Best Cast Steel, Properly Tempered, Ground and Polished Per Dozen

No. 30B—1/8, 1/4 and 3/8 in. Points, for Nos. 30A, 130A and 26 Yankee Screw Drivers, Weight Per Dozen 1 Lb. \$2.75

No. 31B—1/4, 3/8 and 1/2 in. Points, for Nos. 31A, 131A and 27 Yankee Screw Drivers, Weight Per Dozen 1 1/4 Lbs. 2.75

No. 35B—1/8, 3/8 and 1/4 in. Points, for Nos. 35, 135 and 25 Yankee Screw Drivers, Weight Per Dozen 7/8 Lb. 2.75

YANKEE, WITH SCREW HOLDER



For Use with Yankee Spiral Ratchet Screw Drivers

Per Dozen

No. 30SH—For Nos. 30A, 130A and 26 Yankee Screw Drivers \$7.00

No. 31SH—For Nos. 31A, 131A and 27 Yankee Screw Drivers 7.00

No. 35SH—For Nos. 35, 135 and 25 Yankee Screw Drivers 6.00

A longer bit than regular, with holder attached to hold screw. When screw is driven in place the jaws open as the head of screw sinks into wood.

SCREW EYE HOLDERS

YANKEE



For Use with Yankee Spiral Ratchet Screw Drivers

Per Dozen

No. 30E—For Nos. 30A, 130A and 26 Yankee Screw Drivers \$7.00

No. 31E—For Nos. 31A, 131A and 27 Yankee Screw Drivers 7.00

No. 35E—For Nos. 35, 135 and 25 Yankee Screw Drivers 6.00

COUNTERSINKS

YANKEE



For Use with Yankee Spiral Ratchet Screw Drivers
Extra Quality Steel, for Hard or Soft Wood.

- | | |
|--|-----------|
| | Per Dozen |
| No. 30C—For Nos. 30A, 130A and 26 Yankee Screw Drivers | \$3.25 |
| No. 31C—For Nos. 31A, 131A and 27 Yankee Screw Drivers | 3.25 |
| No. 35C—For Nos. 35, 135 and 25 Yankee Screw Drivers | 3.25 |
- One Dozen in a Box.

WRENCH SOCKETS

YANKEE



For Use with Yankee Spiral Ratchet Screw Drivers

- | | |
|--|--|
| No. 30W—For Nos. 30A, 130A and 26 Yankee Screw Drivers, Width Across Flat inches $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{5}{16}$ and $\frac{1}{2}$ in. | |
| No. 31W—For Nos. 31A, 131A and 27 Yankee Screw Drivers, Width Across Flat inches $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{5}{16}$ and $\frac{3}{8}$ in. | |

| | |
|--|-----------|
| Sizes $\frac{1}{4}$ to $\frac{1}{2}$ Inch..... | Per Dozen |
| Sizes $\frac{1}{2}$ to $\frac{3}{8}$ Inch..... | \$3.50 |
| State Size and Number of Screw Driver When Ordering. | 4.00 |

CHUCKS WITH DRILL POINTS

YANKEE



For Use with Yankee Spiral Ratchet Screw Drivers

Consists of 8 Drills $\frac{1}{16}$ to $\frac{1}{8}$ in., With Chuck with Shank Same as Screw Driver Bits Fitting the Screw Driver Converting it into a Drill.

- | | |
|---|---------|
| No. 30C—For Nos. 30, 130 and 26 Screw Drivers. | \$12.00 |
| No. 31C—For Nos. 31, 131 and 27 Screw Drivers. | 12.00 |
| No. 35C—With 3 Drills $\frac{1}{16}$, $\frac{1}{8}$ and $\frac{3}{16}$ in., for Nos. 35, 135 and 25 Screw Drivers. | 6.00 |
- One Set in a Round Wooden Box, One Dozen in a Carton.

MILLERS FALLS



For Use in Spiral Ratchet Screw Drivers

Drills can be removed without removing chuck from screw driver.

- | | |
|---|--------------------|
| No. 6100—For Use in Nos. 61 and 610 Screw Drivers, 8 Drill Points, One Each $\frac{1}{16}$ to $\frac{1}{8}$ in., Weight Per Set 3 Oz. | Per Set. \$0.95 |
| No. 6700—For Use in Nos. 67 and 670 Screw Drivers, 3 Drill Points, One Each $\frac{1}{16}$ to $\frac{1}{8}$ in., Weight Per Set 2 Oz. | .45 |
- One Set in a Box.

RADIO TOOL SETS

YANKEE



Specially Designed for Radio Work

This is the Handiest Set of Tools ever made for radio work.

It takes care of all screws, reams and countersinks holes, runs up nuts, bends and loops wire, and is provided with a wrench for jack and $\frac{1}{16}$ in. hexagon or square nuts. A touch on the ratchet shifter gives right and left ratchet and rigid adjustment.

- | | |
|--------------------------------------|-------------------|
| No. 105 Set—Weight Per Set 1 Lb..... | Per Set \$3.50 |
|--------------------------------------|-------------------|

Contents of No. 105 Set

No. 230—Ratchet Screw Driver ($6\frac{1}{4}$ in. Over All) Holds All Attachments.

Blades— $5\frac{1}{2} \times \frac{1}{16}$ in. for Long Reach into Box, Between Wires, etc.
 $3\frac{1}{2} \times \frac{1}{16}$ in., for Small Screws on Dials.
 $2\frac{1}{2} \times \frac{1}{16}$ in., for Heavy Screws, Putting up Aerials, etc.

Countersink—For Countersinking, for Heads of Screws.

Sockets—(Two) $\frac{1}{4}$ in. and $\frac{5}{16}$ in. Hexagon, with 4 in. Shanks. Cover all Small Nuts.

Reamer—For Enlarging Holes in Panel from $\frac{1}{8}$ to $\frac{1}{2}$ in.

Wrench—One End, $\frac{1}{16}$ in. Square or Hexagon. Other, $\frac{1}{2}$ in. Hexagon for Jacks.

Wire Bender—For Making Loops and Bending Wire.

One Set in a Box.

SCREW DRIVERS

YANKEE MAGAZINE POCKET



Nickel Plated Knurled Steel Body

Polished and Nickel Plated, with Four Detachable Cast Steel Blades of Varying Widths and Thicknesses, Blades are Kept in Magazine Formed by Handle.

- | | |
|--|----------------|
| No. 60— $\frac{5}{16}$ in. Diameter, Length when Closed 3 in., When Extended $4\frac{1}{4}$ in., Weight Each 2 Oz. | Each \$1.00 |
|--|----------------|

Twelve in a Box.

This small tool is the most convenient screw driver made with assorted blades.

SCREW DRIVERS

YANKEE RATCHET



No. 11—Right and Left Hand and Rigid

Polished Cast Steel Blade, Nickel Plated Parts, Polished Hardwood Handle.

| | | | | |
|-----------------------------|--------|-------|-------|-------|
| Length Blade, Inches..... | 2 | 3 | 4 | 5 |
| Length Over All, Inches.... | 4 7/8 | 7 3/4 | 8 3/4 | 9 3/4 |
| Weight Per Dozen, Lbs.... | 1 1/2 | 3 1/4 | 3 1/2 | 3 3/4 |
| Per Dozen | \$8.50 | 10.30 | 11.00 | 12.20 |

| | | | |
|-----------------------------|---------|-------|--------|
| Length Blade, Inches..... | 6 | 8 | 10 |
| Length Over All, Inches.... | 11 1/2 | 13 | 15 1/4 |
| Weight Per Dozen, Lbs.... | 5 | 6 | 7 1/2 |
| Per Dozen | \$13.75 | 15.50 | 18.50 |

Adjustment for right or left hand is made by slide moved across length of blade.

One-half Dozen in a Box.

LIGHT YANKEE RATCHET



No. 15—Right or Left Hand and Rigid

Polished Cast Steel Blade, 5/8 in. Diameter, Nickel Plated Parts, Polished Hardwood Handle.

| | | | | |
|-----------------------------|--------|-------|-------|-------|
| Length Blade, Inches.... | 2 | 3 | 4 | 5 |
| Length Over All, Inches.... | 4 7/8 | 5 7/8 | 6 7/8 | 7 7/8 |
| Weight Per Dozen, Lbs.... | 1 1/4 | 1 1/2 | 1 3/4 | 1 3/4 |
| Per Dozen | \$9.25 | 9.75 | 10.00 | 10.50 |

Has a knurled washer on the blade to turn the blade with the finger and thumb.

One-half Dozen in a Box.

YANKEE SCREW HOLDING RATCHET



Right or Left Hand and Rigid

Polished Cast Steel Blade, Nickel Plated Parts, Polished Hardwood Handle, with Attachment to Hold Screw, Put it in Place and Drive it in, Especially in Places Difficult to Reach.

No. 110—5 in. Blade, Weight Per Dozen 4 1/4 Lbs. \$16.50
One-half Dozen in a Box.

LIGHT YANKEE SCREW HOLDING RATCHET



Right or Left Hand and Rigid

Polished Cast Steel Blade, Nickel Plated Parts, Polished Hardwood Handle, with Attachment to Hold Screw, Put it in Place and Drive it in, Especially in Places Difficult to Reach.

No. 115—5 in. Blade, Weight Per Dozen 2 1/4 Lbs. \$16.50
One-half Dozen in a Box.

SHORT YANKEE RATCHET



Right or Left Hand and Rigid

Metal Parts Nickel Plated, Polished Hardwood Handle.

No. 12—1 1/2 in. Polished Cast Steel Blade, 5/8 in. Diameter, Length Over All 5 3/4 in., Weight Per Dozen 3 Lbs. \$12.00
One-half Dozen in a Box.

SCREW DRIVERS

HURWOOD

"Hurwood" Screw Drivers are unsurpassed for strength and durability. The blade, shank and head are one piece of special steel. Two patent projecting wings under the head, together with a rivet which passes through the ferrule, handle and shank, securely fastens the blade in the handle, preventing its turning.

HURWOOD REGULAR



No. 20—With Metal Head

Tempered and Polished Steel Blade, Running Through Handle, Riveted and Headed, Countersunk Head, Black Stained Fluted Hardwood Handle, Polished Steel.

| | | | | |
|-----------------------------|--------|-------|-------|--------|
| Length Blade, Inches..... | 2 1/2 | 3 | 4 | 5 |
| Length Over All, Inches.... | 6 1/2 | 8 | 9 | 10 1/2 |
| Diameter Blade, Inches.... | 3/8 | 7/8 | 1/4 | 5/8 |
| Weight Per Dozen, Lbs.... | 1 1/2 | 1 3/4 | 1 3/4 | 4 1/4 |
| Per Dozen | \$3.60 | 4.20 | 4.80 | 6.00 |

| | | | | |
|-----------------------------|--------|-------|-------|-------|
| Length Blade, Inches..... | 6 | 8 | 10 | 12 |
| Length Over All, Inches.... | 11 3/4 | 15 | 17 | 19 |
| Diameter Blade, Inches.... | 5/8 | 3/4 | 3/4 | 3/4 |
| Weight Per Dozen, Lbs.... | 5 | 8 1/2 | 9 | 10 |
| Per Dozen | \$7.20 | 8.40 | 10.80 | 12.60 |

One-half Dozen in a Box.

HURWOOD DOUBLE GRIP



No. 20—With Metal Head

Intended for Extra Heavy Work, Same Construction as Hurwood Regular Except with Double Grip, 1/2 in. Diameter Blade.

| | |
|-----------------------------|---------|
| Length Blade, Inches..... | 18 |
| Length Over All, Inches.... | 27 1/4 |
| Weight Per Dozen, Lbs.... | 22 |
| Per Dozen | \$19.80 |

One-half Dozen in a Box.

HURWOOD SMALL SHANK ELECTRICIANS



No. 55—With Insulated Head

Small Shank, Blades are Made of Small Stock, Handles are Short and of Small Diameter, Fluted and Stained Black, Blades 1 1/2 in. Diameter.

| | | | | |
|-----------------------------|--------|-------|--------|-------|
| Length Blade, Inches..... | 1 1/2 | 2 1/2 | 3 | 4 |
| Length Over All, Inches.... | 4 1/8 | 6 1/4 | 6 1/2 | 7 1/2 |
| Weight Per Dozen, Lbs.... | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Per Dozen | \$3.60 | 3.60 | 4.20 | 4.80 |
| Length Blade, Inches..... | 5 | 6 | 8 | |
| Length Over All, Inches.... | 8 1/2 | 9 1/2 | 11 1/2 | |
| Weight Per Dozen, Lbs.... | 1 1/2 | 1 3/4 | 1 3/4 | |
| Per Dozen | \$6.00 | 7.20 | 8.40 | |

These screw drivers have the head countersunk in the handle and insulated by a non-conducting plug of hard material.

One-half Dozen in a Box.

HURWOOD BABY



Blade, Shank and Head, Formed from One Piece of Special Steel

A small Screw Driver will turn a good sized screw. Handle Fluted and Stained Black.

No. 21—1 1/2 in. Blade, 5/8 in. Diameter, 4 1/8 in. Long Over All, Weight Per Dozen 1 Lb. \$3.60
One-half Dozen in a Box.

SCREW DRIVERS

HURWOOD MACHINISTS



For Heavy Work

Tempered and Polished Special Steel Blade, Running Through Handle, Riveted and Headed, Countersunk Head, Black Stained Fluted Hardwood Handle, Polished Steel Ferrule, Metal Head.

| | | | |
|-------------------------------|--------|-------|-------|
| Nos. | 51 | 52 | 53 |
| Length Blade, Inches. | 1 3/4 | 3 | 4 |
| Length Over All, Inches. | 5 1/2 | 7 3/8 | 9 1/4 |
| Width of Tip, Inches. | 3/8 | 1/2 | 1 1/2 |
| Weight Dozen, Lbs. | 3 1/2 | 5 3/4 | 9 |
| Per Dozen | \$4.80 | 9.00 | 12.00 |

One-half Dozen in a Box.

HURWOOD MACHINISTS



Hexagon Shank for Use with Wrench

Blade, Shank and Head are Formed from One Piece of Special Steel, Extra Heavy Blade, Black Fluted Handle, Metal Head.

| | | | |
|-------------------------------|--------|--------|--------|
| Nos. | 51 1/2 | 52 1/2 | 53 1/2 |
| Length Blade, Inches. | 1 1/2 | 2 3/8 | 3 1/4 |
| Length Over All, Inches. | 5 1/2 | 7 3/8 | 9 1/4 |
| Width of Tip, Inches. | 3/8 | 1/2 | 1 1/2 |
| Weight Dozen, Lbs. | 4 | 7 | 10 |
| Per Dozen | \$7.80 | 12.00 | 15.00 |

These screwdrivers are especially adapted for heavy work when a long driver can not be conveniently used.

One-half Dozen in a Box.

HURWOOD DOUBLE GRIP MACHINISTS



Hexagon Shank, for Use with Wrench

Blade, Shank and Head are Formed from One Piece of Special Steel, Extra Heavy Blade, Black Fluted Handle, Metal Head.

No. 54—8 in. Blade, 18 1/4 in. Long Over All, 1/2 in. Diameter Blade, Weight Per Dozen 17 1/4 Lbs. \$30.00

CHAMPION



No. 201—Strong Malleable Bolster

Polished Round Forged Tough Steel Blade, Tempered Shank Shrunken into a Malleable Bolster, Heavy Combined Tang and Ferrule, Cherry Stained Fluted Hardwood Handle.

| | | | | | |
|----------------------------|--------|-------|-------|-------|-------|
| Length Blade, Inches. | 2 1/2 | 3 | 4 | 5 | 6 |
| Weight Dozen, Lbs. | 1 1/2 | 2 | 3 | 4 | 4 1/2 |
| Per Dozen | \$4.25 | 5.00 | 5.25 | 5.60 | 6.40 |
| Length Blade, Inches. | 7 | 8 | 10 | 12 | |
| Weight Dozen, Lbs. | 5 | 6 1/2 | 8 | 11 | |
| Per Dozen | \$7.35 | 8.20 | 10.20 | 12.15 | |

One-half Dozen in a Box.

CHAMPION CABINET MAKERS



No. 203—Strong Malleable Bolster

Polished Round Forged Tough Steel Blade, Tempered Shank Shrunken into a Malleable Bolster, Heavy Combined Tang and Ferrule, Cherry Stained Fluted Hardwood Handle.

| | | | | |
|----------------------------|--------|-------|--------|-------|
| Length Blade, Inches. | 2 1/2 | 3 1/2 | 4 1/2 | 5 1/2 |
| Weight Dozen, Lbs. | 1 1/2 | 2 | 2 3/4 | 3 |
| Per Dozen | \$4.25 | 5.00 | 5.25 | 5.60 |
| Length Blade, Inches. | 6 1/2 | 8 1/2 | 10 1/2 | |
| Weight Dozen, Lbs. | 3 1/4 | 5 | 7 | |
| Per Dozen | \$6.40 | 8.20 | 10.20 | |

One-half Dozen in a Box.

SCREW DRIVERS

CHAMPION SPECIAL



With Short Blade

Malleable Bolster, Polished Forged Steel Blade, Heavy Combined Tang and Ferrule, Cherry Stained Fluted Hardwood Handle.

No. 112—1 1/2 in. Blade, 3/8 in. Wide, 5 1/4 in. Long Over All, Weight Per Dozen 3 1/2 Lbs. \$4.25

LENOX KNIFE HANDLE



No. 239—One Piece, Drop Forged Steel

| | | | | | |
|--|--------|-------|-------|-------|-------|
| Seasoned Hardwood Handle, Patent Screw Rivets. | | | | | |
| Length Blade, Inches. | 2 | 2 1/2 | 3 | 4 | 5 |
| Length Over All, Inches. | 5 3/4 | 6 3/4 | 7 3/4 | 8 3/4 | 9 3/4 |
| Diameter, Inches. | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
| Weight Dozen, Lbs. | 2 1/4 | 2 3/4 | 4 1/4 | 4 1/2 | 5 |
| Per Dozen | \$3.50 | 3.70 | 4.00 | 4.25 | 5.00 |

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Length Blade, Inches. | 6 | 7 | 8 | 10 | 12 |
| Length Over All, Inches. | 11 1/4 | 12 1/4 | 14 1/4 | 16 3/4 | 18 3/4 |
| Diameter, Inches. | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 |
| Weight Dozen, Lbs. | 7 1/4 | 7 3/4 | 10 1/2 | 11 1/2 | 12 1/2 |
| Per Dozen | \$6.00 | 7.00 | 8.00 | 10.00 | 12.00 |

One-half Dozen in a Box.

TOBRIN MACHINISTS KNIFE HANDLE

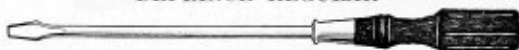


No. 31—With Square Shank

| | | | | | |
|---|--------|-------|--------|--|--|
| One Piece Drop Forged Steel, Hardwood Handle. | | | | | |
| Length Blade, Inches. | 4 | 4 1/2 | 5 | | |
| Length Over All, Inches. | 8 1/2 | 9 1/2 | 10 1/2 | | |
| Size Shank, Inches. | 3/8 | 1/2 | 5/8 | | |
| Width Point, Inches. | 3/8 | 1/2 | 5/8 | | |
| Weight Dozen, Lbs. | 5 1/2 | 7 1/2 | 10 1/2 | | |
| Per Dozen | \$9.00 | 10.00 | 11.00 | | |

One-half Dozen in a Box.

DEFIANCE REGULAR



No. 70—Red Fluted Handle

Tempered Steel Blade, Securely Fastened in Handle, Will Not Turn.

| | | | | | |
|-------------------------------|--------|-------|-------|--------|--------|
| Length Blade, Inches. | 2 1/2 | 3 | 4 | 5 | 6 |
| Length Over All, Inches. | 6 1/2 | 8 | 9 | 10 1/2 | 11 3/4 |
| Diameter Blade, Inches. | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Weight Dozen, Lbs. | 1 3/4 | 1 3/4 | 2 1/2 | 3 1/2 | 4 |
| Per Dozen | \$3.00 | 3.00 | 3.60 | 3.60 | 4.20 |
| Length Blade, Inches. | 8 | 10 | 12 | 15 | 18 |
| Length Over All, Inches. | 15 | 17 | 19 | 22 3/4 | 27 1/4 |
| Diameter Blade, Inches. | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 |
| Weight Dozen, Lbs. | 7 | 8 | 9 | 12 1/4 | 18 |
| Per Dozen | \$5.40 | 6.60 | 8.40 | 9.60 | 12.00 |

One-half Dozen in a Box.

RELIANCE ASSORTMENT

In Metal Display

Rack

Special Steel, Tempered Blades, Fluted Black Hardwood Handles, Nickel Plated Drawn Steel Ferrules.

Per Assortment

No. 35 Assortment
—Contains Four
Each 4, 5 and 6
in. Blade Screw-
drivers in Enam-
eled Steel Stand,
Attractively En-
ameled in 4 Col-
ors, Wt. Each
4 1/2 Lbs. \$4.50



SCREW DRIVERS

STANLEY RADIO



No. 177—Black Stained Handle with Fluted Grip

Parallel Shanks, $\frac{3}{8}$ in. Diameter for following Counter-sunk Screws.

| | | | | |
|-------------------------|-----------------|-----------------|-----------------|------------------|
| Length Blade, Inches | 2 | 4 | 6 | 8 |
| Length Over All, Inches | 5 $\frac{3}{4}$ | 7 $\frac{3}{4}$ | 9 $\frac{3}{4}$ | 11 $\frac{3}{4}$ |
| Weight Per Dozen, Lbs. | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 1 | 1 $\frac{1}{2}$ |
| Per Dozen | \$3.00 | 4.20 | 4.80 | 6.60 |

One-half Dozen in a Box.



CRESCENT HAMR-HANDL

Drop Forged Steel Blade, Hardened and Oil Tempered, Nickel Plated

Answers every purpose of an ordinary screw driver when handle is straight. By turning the handle at right angles irresistible leverage is secured, easily starting the tightest screw in hard wood.

A strong spring holds the handle in place in either position.

Handle may be used as a hammer.

Each

No. K26—6 in. Blade, 10 in. Over All, $\frac{1}{2}$ in. Point, Weight Each 14 Oz. \$0.90
One in a Box.

STARRETT POCKET



Open.



Closed.

Octagon Head Prevents Rolling

Knurled and Nickel Plated Steel Tubing Handle, Tempered Steel Blade.

Each

No. 553A— $\frac{1}{4}$ in. Diameter Handle, 1 $\frac{3}{4}$ in. Long, Blade, Weight Each $\frac{1}{2}$ Oz. \$0.50

No. 553B— $\frac{3}{8}$ in. Diameter Handle, 3 in. Long Blade, Weight Each 1 $\frac{1}{4}$ Oz. .60

Extra Blades .18
Six in a Box.

STARRETT JEWELERS



Steel Tubing, Knurled and Nickel Plated

With Concave Swivel Head, Prevents Rolling.

| | | | | | | |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Nos. | 555AA | 555A | 555B | 555C | 555D | 555E |
| Handle, Inches | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |
| Dia. of Blade, In. | .025 | .040 | .055 | .070 | .080 | .100 |
| Each | \$0.55 | .55 | .55 | .55 | .55 | .55 |

No. 555S—Set of Six. Per Set, \$3.30

Extra Blades .18
Six in a Box.

STARRETT OPTICIANS



With Concave Swivel Head

Made of Steel Tubing, Nickel Plated.

For opticians, watch and clock makers. Pressing the bowed part between the thumb and fingers opens the jaws to pick up and hold small screws.

Each

No. 552A—Complete Screw Driver, with Two Blades and Screw Holder. \$0.80

No. 552B—Without Screw Holders. .60

Extra Screw Holder .20

Extra Blades—Either Size .15
Six in a Box.

SCREW DRIVERS

STARRETT MAGAZINE POCKET



Knurled Metal Handle.

Each

No. 557—4 in. Long when Closed, with 4 Detachable Blades, 1 Each $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ and $\frac{1}{2}$ in., Weight

Each 5 Oz. \$1.65

Extra Blades .15

One in a Box.

STARRETT EYE GLASS



Steel Tubing, Knurled and Nickel Plated

This Screw Driver is made with a chuck to hold the blade firmly in a split socket when in use. To carry in the pocket, on a key ring or watch chain. The blade may be removed by a slight turn of the chuck then reversed and telescoped through the socket.

Each

No. 554—2 $\frac{1}{2}$ in. Long, $\frac{3}{8}$ in. Diameter of Handle. \$0.35

Extra Blades .10

Six in a Box.

LITTLE WONDER ASSORTMENT

On Display Card

Tempered Steel Blade $\frac{1}{8}$ in. Diameter, Red Varnished Wood Handles, Polished Steel Ferrules.

Per Assortment

No. 42 Assortment—Contains Four Each 1 $\frac{1}{4}$, 2 and 3 in. Blade, Screw Drivers on Card, Weight Each $\frac{1}{2}$ Lb. \$2.00



B-M-CO REVERSIBLE RATCHET



For Work in Close Quarters

Forged Steel, Nicely Finished, Tool Steel Bits.

Per Dozen

No. 18—9 in. Long, Weight Per Dozen 3 $\frac{1}{2}$ Lbs. \$30.00

One in a Box.

DOUBLE END OFF-SET



Two Different Angles, for Close Work

Hand Forged Tool Steel, Natural Finish.

Per Dozen

No. 592—6 in. Long, Weight Per Dozen 1 $\frac{3}{4}$ Lbs. \$3.00

One Dozen in a Box.

SCREW DRIVER BITS

STANLEY



No. 26—Crucible Steel, Oil Tempered and Polished

| | | | | |
|------------------------|-----------------|-----------------|-----------------|-----------------|
| Width Tip, Inches | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Length, Inches | 4 $\frac{1}{2}$ | 4 $\frac{3}{4}$ | 5 | 5 |
| Weight Per Dozen, Lbs. | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ |
| Per Dozen | \$3.00 | 3.00 | 3.00 | 3.00 |

Per Dozen

No. 26A—Assorted, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{1}{2}$ in. \$3.00

One Dozen in a Box.

BUCK



High Grade Crucible Tool Steel, Polished

Per Dozen

No. 72—5 in. Long, Assorted $\frac{1}{4}$ to $\frac{3}{8}$ in. Tips, Weight Per Dozen 1 $\frac{1}{2}$ Lbs. \$4.50

One Dozen in a Box.

HOLLOW HANDLE TOOL SETS

MILLERS FALLS

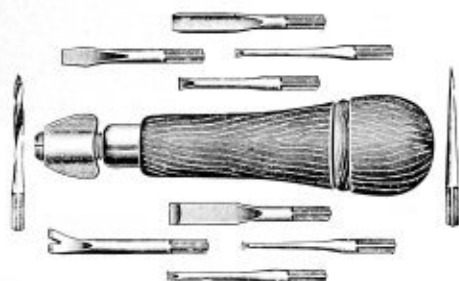


Length of Tools 4 in.

Cocobolo Handle, Highly Polished, Nickel Plated Chuck and Jaws, Ten High Grade Carefully Tempered and Honed Steel Tools.

No. 5—Handle 7½ in. Long, with 10 Tools, Weight Each 14 Oz. \$3.30
One in a Box.

BUELL



Length of Tools 2½ in.

High Finished Tempered Steel Tools, Polished Chuck and Jaws.

No. 4B—Cocobolo Handle, with 10 Tools, Weight Per Dozen 4 Lbs. \$12.00
No. 5B—Maple Handle, with 10 Tools, Weight Per Dozen 4 Lbs. 6.00
One-half Dozen in a Box.

BRIDGEPORT UTILITY



Length of Tools 4 in.

Forged Steel Tools, Hardened and Tempered, "Lock-grip" Chuck, Cocobolo Handle.

No. 191—7½ in. Long Over All, Weight Each 12 Oz. \$30.00
One-half Dozen in a Box.

AWLS

HURWOOD SCRATCH



Blade, Shank and Head Formed from One Piece

High Grade Steel, Points Tempered, Black Stained Handle.

| | | |
|------------------------|--------|------|
| Nos. | 6 | 7 |
| Length Blade, Inches | 2¾ | 3½ |
| Weight Per Dozen, Lbs. | 1½ | 2¼ |
| Per Dozen | \$4.20 | 4.80 |

One-half Dozen in a Box.

STANLEY SCRATCH



Needle Point

Steel Blade, Hardwood Handle, Brass Ferrule.

| | | |
|------------------------|--------|------|
| Nos. | 1 | 2 |
| Length Blade, Inches | 3 | 3½ |
| Diameter Blade, Inches | 3/8 | 1/2 |
| Weight Per Dozen, Lbs. | ¾ | 1½ |
| Per Dozen | \$1.80 | 1.80 |

One Dozen in a Box.

PENTO SCRATCH



For Heavy Work

No. 3—Socket, Forged Steel, Polished, 5 in. Blade.

Hardwood Handle, Weight Per Dozen 2 Lbs. \$4.00

One Dozen in a Box.

HURWOOD BRAD



Blade, Shank and Head Formed from One Piece

High Grade Steel, Points Tempered, Black Stained Handle.

No. 17—Assorted Blades, 1 to 1½ in. Long, Weight Per Dozen

Per Dozen 1½ Lbs. \$4.20

One Dozen in a Box.

MAYHEW BRAD



Flat Forged Tool Steel Blades

Carefully Tempered, Mahogany Finish, Hardwood Handle, Nickel Plated Ferrule.

No. 1050—Blades 1½ in. Long, Assorted Flat Points, Per Dozen

¾ to 5/8 in., Weight Per Dozen 1½ Lbs. \$2.00

One Dozen in a Box.



Pointed Forged Tool Steel Blades

Carefully Tempered, Mahogany Finish Hardwood Handle, Nickel Plated Ferrule, Pointed Blade.

No. 1055—Blades 1½ in. Long, Weight Per Dozen

1½ Lbs. \$2.00

One Dozen in a Box.

HURWOOD BELT



Eye Point

Blade, Shank and Head Formed from One Piece High Grade Steel, Black Stained Handle.

No. 9—¼ in. Blade, 4¾ in. Long, 8¾ in. Long, Per Dozen

Over All, Weight Per Dozen 2¾ Lbs. \$4.20

One-half Dozen in a Box.

AWL HAFTS**PATENT SEWING****Applewood**

Per Dozen

No. 6 1/4—3 3/4 in. Long, Steel Chuck, for Patented Blades, with Wrench, Weight Per Dozen 2 Lbs. \$2.40
One Dozen in a Box.

PATENT PEGGING**Hickory, Leather Top**

Per Dozen

No. 6—4 in. Long, Steel Chuck, for Patented Blades, with Wrench, Weight Per Dozen 2 Lbs. \$2.40
One Dozen in a Box.

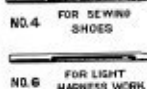
SEWING AWLS**SPEEDY STITCHER**

Cut Shows Awl Cut Open to Show Bobbin and Set of Needles on the Inside.

For Mending Harness, Shoes, Auto Tops, Etc.

Per Dozen

No. 75—Polished Rock Maple Handle, Nickel Plated Parts, Complete with 4 Diamond Pointed Grooved Needles for All Kinds of Sewing, 1 Special Needle for Tapping Shoes, 1 Awl for Making Buckle Holes and Best Shoemakers' Waxed Thread, Weight Per Dozen 4 Lbs. \$9.00
One in a Carton; Six Cartons in an Easel Back Display Case.

EXTRA NEEDLES FOR SPEEDY STITCHER**NEEDLES**

Illustrations Half Size.

Per Dozen

No. 4 —Needle, for Sewing Shoes \$1.50
No. 6 —Needle, for Light Harness Work..... 1.50
No. 7 —Needle, for Ordinary Harness Work..... 1.80
No. 8 —Needle, for Heavy Harness Work..... 1.80
No. 8A—Needle, for Soling Shoes 2.00

One Dozen in a Package.

EXTRA THREAD FOR SPEEDY STITCHER**BOBBIN WITH****WAXED THREAD**

Per Dozen Skeins

Extra Thread—30 Yard Skeins, Waxed..... \$3.00

Per Dozen

Extra Bobbin—With Thread \$1.50

One Dozen in a Box.

AWLS**PATENT PEG**

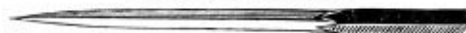
Per Gross

No. 141—Extra Cast Steel, Assorted..... \$4.80
One Gross in a Box.

PATENT SEWING

Per Gross

No. 51—Extra Cast Steel, Assorted..... \$7.00
One-half Gross in a Box.

PATENT HARNESS

Per Gross

No. 55—Extra Cast Steel, Assorted, Average Weight
Per Gross 5/8 Lbs. \$9.00
One-half Gross in a Box.

NEEDLES**BENT PACKING**

Polished Steel, Extra Large Eyes

| Length, Inches | 4 | 5 | 6 | 7 | 8 |
|-----------------------|--------|-----|-----|------|------|
| Weight Per Paper, Oz. | 5 | 9 | 15 | 25 | 30 |
| Per Dozen | \$0.30 | .45 | .60 | 1.00 | 1.25 |

Three Dozen in a Paper.

UPHOLSTERERS

Polished Steel, Double Point

| Length, Inches | 8 | 10 | 12 |
|-----------------------|--------|------|------|
| Weight Per Dozen, Oz. | 2 | 3 | 4 |
| Per Dozen | \$1.25 | 1.50 | 1.75 |

One Dozen in a Paper.

MATTRESS

Polished Steel, Single Point

| Length, Inches | 6 | 8 | 10 | 12 |
|-----------------------|--------|-----|-----|------|
| Weight Per Dozen, Oz. | 1 | 2 | 3 | 4 |
| Per Dozen | \$0.40 | .50 | .75 | 1.00 |

One Dozen in a Paper.

SAIL

Polished Steel, Triangular Point

| Nos. | 4 | 6 | 8 |
|-------------------------|--------|-----|-------|
| Length, Inches | 2 1/2 | 3 | 3 1/2 |
| Weight Per Package, Oz. | 2 | 3 | 4 |
| Per Package | \$0.25 | .35 | .50 |

Twenty-five in a Package.

CURVED UPHOLSTERERSPolished Steel, Spear Point
Full Length Around Curve.

| Length, Inches | 5 | 6 | 7 |
|-----------------------|--------|-------|-------|
| Weight Per Dozen, Oz. | 1 1/4 | 1 1/2 | 1 3/4 |
| Per Dozen | \$2.00 | 2.50 | 3.50 |

One Dozen in a Package.

NAIL SETS SYRACUSE



Round Body

Twist Drill Steel, Tempered Ends, Knurled Body, Blued Finish, Cupped Point.

| Nos. | 91 | 92 | 93 | 94 | 95 |
|-------------------------|----------------|---------------|----------------|---------------|----------------|
| Diameter Point, Inches. | $\frac{3}{32}$ | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ |
| Per Dozen | \$2.50 | 2.50 | 2.50 | 2.50 | 2.50 |

Average Weight Per Dozen 1 Pound.
One Dozen in a Box.

STANLEY

No. 11—Round Body

High Grade Tool Steel, Tempered Ends, Knurled Body, Cupped Point, 4 inches Long.

| | | |
|----------------------|--------|------|
| Diam. Point, Inches. | 2/32 | 5/64 |
| Per Dozen | \$1.80 | 1.80 |
| Diam. Point, Inches. | 3/32 | 4/32 |
| Per Dozen | \$1.80 | 1.80 |

Weight Per Dozen 12 Ounces.
One Dozen in a Box.

Display Assortments

| | Each |
|-------------------------------------|--------|
| No. 11A—1 Dozen Sets | \$1.80 |
| No. 11B—2 Dozen Sets | 3.60 |
| Assorted Sizes 2/32 to 4/32 inches. | |



MAYHEW SQUARE HEAD



Will Not Roll

Hand Forged Crucible Steel, Electrically Tempered, Knurled Body, Cupped Point.

| Nos. | 435 | 436 | 437 | 438 |
|---------------------|--------|------|------|------|
| Size Point, Inches. | 1/32 | 2/32 | 3/32 | 4/32 |
| Per Dozen | \$2.50 | 2.50 | 2.50 | 2.50 |

One Dozen in a Box.

MILLERS FALLS



Square Head, Machined Cup Points

Large Striking Surface. Will Not Roll.

| Nos. | 451 | 452 | 453 | 454 |
|---------------------|--------|------|------|------|
| Size Point, Inches. | 1/32 | 2/32 | 3/32 | 4/32 |
| Per Dozen | \$2.50 | 2.50 | 2.50 | 2.50 |

Assorted Sizes

| Nos. | 4501 | 4502 | 4503 | 4504 |
|---------------------|--------|------|------|------|
| Size Point, Inches. | 1/32 | 2/32 | 3/32 | 4/32 |
| Per Dozen | \$2.50 | 2.50 | 2.50 | 2.50 |

One Dozen in a Box.

MILLERS FALLS NAIL SET DISPLAY

With Square Head Nail Sets

This attractive Display Stand is furnished with Two Dozen Millers Falls Square Head Nail Sets in Assorted Sizes, as described above.

The Stand is enameled a deep rich red with trade mark on base. It takes up but a small amount of counter space.



| Nos. | 4500 |
|---|--------|
| Assortment with 3 Dozen Nail Sets, Height Including Sets 5 1/4 in., Diameter of Base 4 1/4 in., Weight with Sets 3 3/4 Lbs. | \$5.25 |

MACHINISTS SCRIBERS STARRETT IMPROVED



With Adjustable Points

The points are made of a fine grade of steel, nicely tempered. The knurled stock is of sufficient size to be easily held without cramping or turning in the fingers. The long, bent point will be found a valuable auxiliary for reaching through holes, etc. The knurled sleeve is nickeled.

| Nos. | 67 | 67A |
|---|----|--------|
| Length with Short Bent Point 9 in., with Long Point 12 in., Interchangeable Parts, Complete | | \$0.60 |
| Without Long Point | | .45 |
| Extra Straight Points | | .15 |
| Extra Bent Points | | .15 |
| Extra Long Bent Points | | .20 |

Six in a Box.

STARRETT ADJUSTABLE SLEEVE



Nickel Plated, Knurled Sleeve

The knurled sleeve has a hole clear through and a clamping device at one end, adapting it for slipping on or off different tools, securely holding them near to or away from the working point. The knurled sleeve is nickeled.

| Nos. | 68A | 68B |
|----------------------------------|-----|--------|
| 8 in. Long, without Knife Point | | \$0.60 |
| 12 in. Long, without Knife Point | | .60 |
| Extra Knife Point | | .20 |
| Extra Scriber Point | | .20 |

Six in a Box.

STARRETT POCKET



Hexagon Heads Prevent Rolling

This Tool is made from Steel Tubing, Knurled and Nickel Plated. The Scriber is made from the best quality steel, nicely tempered, and is held by a knurled chuck. The Scriber is reversible, telescoping into the stock, and is held by a slight turn of the chuck so that it is always as safe to carry in the pocket as a penknife.

| Nos. | 70A | 70B |
|--|-----|--------|
| 1/4 in. Diameter Handle, 2 3/4 in. Blade | | \$0.35 |
| 3/8 in. Diameter Handle, 2 3/4 in. Blade | | .50 |

Six in a Box.

MAYHEW



Embossed Hand Hold

Forged Steel, Polished Point and Head. Has a fine sharp point and is tapered properly so as not to obscure the view of the operator.

| Nos. | 499 |
|---|--------|
| 6 in. Long, 3/8 in. Diameter, Weight Per Dozen 2 1/4 Lbs. | \$2.00 |

One Dozen in a Box.

BELL CENTERING PUNCHES



For Centering Oval or Flat Surface

Forged Steel Bell, Polished, Solid Tool Steel Punch Hardened and Tempered.

| Nos. | 1 | 2 |
|--|---|--------|
| Centers Shafts Up to 1 3/8 in. Diameter, Weight Each 5 Oz. | | \$1.40 |
| Centers Shafts Up to 2 in. Diameter, Weight Each 16 Oz. | | 1.75 |

This tool will accurately center any oval or flat surface. The punch is movable up and down and can be removed or replaced when necessary.

One in a Box.

CENTER PUNCHES

STARRETT SPRING



With Removable Point

The unique construction of this Punch brings it nearly in the automatic center punch class. While eliminating the use of the hammer it operates entirely different from the types heretofore available. Hold in position with one hand and with the other pull up the head and let go. The spring hammers the drive on the pin on the punch holder. By varying and repeating the "pull up" of the head, very small or large indentations are possible. All parts subject to wear are hardened and it is knurled for firm grip. The tip or point can be easily removed.

Each No. 53—3½ in. Long, ⅜ in. Diameter.....\$1.35
Extra Points20

One in a Box.

STARRETT ADJUSTABLE AUTOMATIC



Automatically Strikes a Blow of Any Required Force

Adjustable Point, Contains a Mechanism which Delivers a Blow of Force Required when in exact position desired by the operator. When adjusted for either light or heavy stroke, all indentations are of uniform size for the starting of a drill, etc.

| Nos. | 18AA | 18A | 18B |
|------------------|--------|------|------|
| Length, Inches | 3½ | 5 | 6 |
| Diameter, Inches | ⅜ | ½ | ⅝ |
| Weight Each, Oz. | 1 | 3 | 4 |
| Each | \$1.80 | 2.40 | 3.00 |
| Extra Points | .20 | .20 | .20 |

One in a Box.

BROWN & SHARPE AUTOMATIC



No. 770—Tool Steel, Adjustable Point

Striking Mechanism Enclosed in Knurled Handle.

| Size | 1 | 2 | 3 |
|------------------|--------|------|------|
| Length, Inches | 4½ | 5½ | 6 |
| Diameter, Inches | ⅜ | ⅝ | ⅞ |
| Weight Each, Oz. | 3 | 7 | 10 |
| Each | \$2.00 | 3.00 | 4.00 |

A downward pressure releases the striking block and makes the impression. The punch marks are of uniform depth.

One in a Box.

BROWN & SHARPE ADJUSTABLE AUTOMATIC



Tool Steel, Adjustable Point

Striking Mechanism Enclosed in Knurled Handle. The length of stroke is adjustable for light or heavy impressions. The adjustment is made by Knurled Thumb Screw on top of the Handle.

| | | |
|--|-------|--------|
| No. 771—5½ in. Long, ⅝ in. Diameter, Weight Each | 7 Oz. | \$3.50 |
| Extra Points—For Nos. 770 and 771 Punches..... | .20 | |

One in a Box.



STARRETT SQUARE

With Knurled Grip, Will Not Roll

High Grade Tool Steel, Tempered Throughout.

| Nos. | 264A | 264B |
|-----------------|--------|------|
| Dia. Point, In. | ⅜ | ⅝ |
| Length, In. | 2⅞ | 3⅞ |
| Wt. Each, Oz. | ½ | ¾ |
| Each | \$0.25 | .25 |

| Nos. | 264C | 264D | 264E | 264F | 264G |
|---------------------|--------|------|------|------|------|
| Diameter Point, In. | ⅜ | ⅝ | ⅞ | 1 | 1¼ |
| Length, Inches | 3⅞ | 4⅞ | 5⅞ | 6⅞ | 7⅞ |
| Weight Each, Oz. | 1 | 1½ | 2 | 3 | 4 |
| Each | \$0.25 | .25 | .35 | .35 | .40 |

Sizes A to F, Twelve; Size G, Six in a Box.

CENTER PUNCHES

STARRETT



With Knurled Finger Grip

Extra Quality Steel, Hardened and Polished.

| Nos. | 117A | 117B | 117C | 117D | 117E |
|---------------------|--------|------|------|------|------|
| Diam. Point, Inches | ⅜ | ⅝ | ⅞ | 1 | 1¼ |
| Length, Inches | 4 | 4 | 4 | 4 | 5 |
| Each | \$0.20 | .20 | .20 | .20 | .30 |

Six in a Box.

MAYHEW



Embossed Hand Hold

Forged Tool Steel, Tempered, Polished Point and Head, 6 in. Long.

| Nos. | 491A | 491B |
|------------------------|--------|------|
| Diameter Stock, Inches | 1½ | 1½ |
| Weight Per Dozen, Lbs. | 2¼ | 3⅝ |
| Per Dozen | \$3.50 | 3.50 |

One Dozen in a Box.

MAYHEW OCTAGON



Octagon, Cast Steel

Black Finish, Polished Points, Tempered.

| Nos. | 415—4 in. Long, ⅝ in. Body, Weight Per Dozen | 416—6 in. Long, ⅝ in. Body, Weight Per Dozen |
|---------|--|--|
| 1½ Lbs. | \$1.50 | |
| 1½ Lbs. | | 3.00 |

One Dozen in a Box.

PRICK PUNCHES

MAYHEW



Embossed Hand Hold

Forged Tool Steel, Tempered, Polished Point and Head, 6 in. Long.

| Nos. | 492A | 492B |
|------------------------|--------|------|
| Diameter Stock, Inches | 1½ | 1½ |
| Weight Per Dozen, Lbs. | 2 | 3⅝ |
| Per Dozen | \$3.50 | 3.50 |

MAYHEW KNURLED



Knurled Hand Hold

Forged Tool Steel, Tempered, Polished Point and Head, 6 in. Long.

| Nos. | 438—4 in. Long, ⅝ in. Diameter, Weight Per Dozen |
|---------|--|
| 1½ Lbs. | \$1.75 |

One Dozen in a Box.

MAYHEW OCTAGON



Octagon, Cast Steel

Black Finish, Polished Points, Tempered.

| Nos. | 410—4 in. Long, ⅝ in. Body, Weight Per Dozen |
|-------------|--|
| 1 Lb. 9 Oz. | \$1.50 |

One Dozen in a Box.

SOLID PUNCHES MAYHEW



Embossed Hand Hold

Forged Steel, Polished Points and Heads. $\frac{1}{2}$ in. Diameter, 6 in. Long.

| | | | | |
|---------------------|---------------|---------------|---------------|---------------|
| Nos. | 490A | 490B | 490C | 490D |
| Diam. Point, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Per Dozen | \$3.00 | 3.00 | 3.00 | 3.00 |

| | | | | |
|---------------------|---------------|---------------|---------------|---------------|
| Nos. | 490E | 490F | 490G | 490H |
| Diam. Point, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Per Dozen | \$3.50 | 3.50 | 3.50 | 3.50 |

Weight Per Dozen 3 $\frac{3}{4}$ Pounds.
One Dozen in a Box.

PIN PUNCHES MAYHEW



Embossed Hand Hold

Forged Tool Steel, Tempered, Polished Point and Head, 6 in. Long.

| | | | | |
|---------------------|---------------|---------------|---------------|---------------|
| Nos. | 493A | 493B | 493C | 493D |
| Diam. Point, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Diam. Stock, In. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Per Dozen | \$3.50 | 3.50 | 3.50 | 3.50 |

| | | | | |
|---------------------|---------------|---------------|---------------|---------------|
| Nos. | 493E | 493F | 493G | 493H |
| Diam. Point, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Diam. Stock, In. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Per Dozen | \$3.50 | 3.50 | 3.50 | 3.50 |

Average Weight Per Dozen 3 Pounds.
One Dozen in a Box.

STARRETT



Extra Long, for Motor Service and Machine Shop Work

Tool Steel, Tempered, Knurled Body, Polished Head and Shank 8 in. Long, $4\frac{1}{2}$ in. Knurled Grip, $3\frac{1}{2}$ in. Pin Drive.

| | | | | | |
|---------------------|---------------|----------------|---------------|----------------|---------------|
| Nos. | 248A | 248B | 248C | 248D | 248E |
| Diam. Point, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Weight Each, Oz. | 3 | $3\frac{1}{2}$ | 4 | $4\frac{1}{2}$ | 5 |
| Each | \$0.35 | .35 | .35 | .35 | .35 |

Six in a Box.

MAYHEW, IN SETS



Hand Forged, Electrically Tempered

High Grade English Steel, Octagon Grip, $\frac{1}{2}$ in. Diameter, 6 in. Long. Particularly offered for Automobile Repair Work.

| | |
|--|--------|
| No. 411 Set—4 Punches, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ in. Assorted Points, Weight Per Set 1 Lb. | \$1.00 |
| No. 412 Set—4 Punches, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ in. Assorted Points, Weight Per Set 1 Lb. | 1.00 |

These punches are tempered right and finely finished, the straight points are long enough to drive the most refractory pin clear out without "sticking" the punch.

They are especially designed for the requirements of Garage Repair Men.

DRIFT PINS "VLCHER"



No. 254—Stock Type

| | | | | | | |
|-----------------|----------------|---------------|----------------|----------------|----------------|---------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Length, Inches | $5\frac{1}{2}$ | 6 | $6\frac{1}{2}$ | 7 | 7 | 7 |
| Wt. Dozen, Lbs. | 2 | 4 | $6\frac{3}{4}$ | $7\frac{1}{2}$ | $9\frac{3}{4}$ | 13 |
| Per Dozen | \$3.50 | 3.50 | 4.00 | 4.00 | 4.00 | 4.00 |

ATHA



No. 1060C.

No. 1060S.

No. 1060C—Barrel Type

| | | | | | | |
|------------------|----------------|----------------|----------------|----------------|---------------|----------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{2}$ |
| Length, Inches | $6\frac{1}{2}$ | $6\frac{3}{4}$ | $7\frac{1}{2}$ | $7\frac{3}{4}$ | 8 | 21 |
| Weight Each, Oz. | 5 | 8 | 13 | 18 | 21 | 55 |
| Each | \$0.30 | .30 | .30 | .35 | .35 | .55 |

No. 1060S—Straight Type

| | | | | | | |
|------------------|----------------|----------------|----------------|----------------|---------------|----------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{2}$ |
| Length, Inches | $6\frac{1}{2}$ | $6\frac{3}{4}$ | $7\frac{1}{2}$ | $7\frac{3}{4}$ | 8 | 21 |
| Weight Each, Oz. | 5 | 8 | 13 | 18 | 21 | 55 |
| Each | \$0.30 | .30 | .30 | .35 | .35 | .55 |

ARCH PUNCHES



No. 5—Alloy Tool Steel

For Cutting Canvas, Felt, Leather, Sheet Lead, Soft Brass, Copper Sheets and other Soft Materials.

| | | | | | | |
|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{2}$ |
| Wt. Dozen, Lbs. | 4 | $4\frac{1}{2}$ | $7\frac{1}{2}$ | $7\frac{1}{2}$ | 9 | 9 |
| Per Dozen | \$10.65 | 11.20 | 12.30 | 12.30 | 13.45 | 13.45 |
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{2}$ |
| Wt. Dozen, Lbs. | 9 | 10 | 10 | 10 | 13 | 13 |
| Per Dozen | \$13.45 | 14.55 | 14.55 | 15.70 | 15.70 | 15.70 |
| Size, Inches | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | $1\frac{3}{4}$ | $1\frac{3}{4}$ |
| Wt. Dozen, Lbs. | $12\frac{1}{2}$ | 12 | 20 | 23 | 22 | 22 |
| Per Dozen | \$20.15 | 20.15 | 24.65 | 24.65 | 26.90 | 26.90 |
| Size, Inches | $1\frac{3}{8}$ | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | $1\frac{3}{4}$ | $1\frac{3}{4}$ |
| Wt. Dozen, Lbs. | 21 | 21 | 21 | 21 | 24 | 24 |
| Per Dozen | \$29.00 | 32.50 | 35.85 | 39.20 | 43.00 | 43.00 |
| Size, Inches | $1\frac{3}{8}$ | $1\frac{1}{2}$ | 2 | $2\frac{1}{8}$ | $2\frac{1}{4}$ | $2\frac{1}{4}$ |
| Wt. Dozen, Lbs. | 25 | 26 | 27 | 32 | 32 | 32 |
| Per Dozen | \$47.00 | 52.35 | 57.40 | 64.40 | 64.40 | 64.40 |

$\frac{1}{8}$ to 1 in., Two in a Box; Larger Sizes, One in a Box.

METAL PUNCHES



No. 25—Forged Tool Steel, Tempered

For Cutting all kinds of Soft Sheet Metals, also Sheet Steel and Sheet Iron $\frac{1}{2}$ in. Thick.

| | | | | |
|-----------------|---------------|----------------|----------------|----------------|
| Size, Inches | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Wt. Dozen, Lbs. | 3 | $4\frac{1}{4}$ | $5\frac{1}{2}$ | 7 |
| Per Dozen | \$12.00 | 12.50 | 13.50 | 14.50 |
| Size, Inches | 1 | $1\frac{1}{4}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Wt. Dozen, Lbs. | 10 | 14 | 14 | 17 |
| Per Dozen | \$16.00 | 25.00 | 25.00 | 36.00 |

$\frac{1}{2}$ to 1 in., Two in a Box; Larger Sizes, One in a Box.

MORRILL

Semi-Steel, Cast Finish, Spring Handle

Each



No. 1—7 in. Long, Throat $\frac{3}{4}$ in. Deep, $\frac{3}{4}$ in. Wide, with 1 Set of Dies, Sizes $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$ or $\frac{3}{8}$ in., Wt. Each 11 Oz.

Extra Punch and Die..... Per Set, .60

Will punch paper, leather, fibre or similar substances up to $\frac{1}{4}$ in. thick, also thin sheet metal.

Six in a Box.

HAND METAL PUNCHES

SAMSON



Stamped Steel, Nickel Plated

Maximum power with steel, $\frac{3}{16}$ in. through 20 gauge. Will punch through $\frac{1}{16}$ in. brass and paper in any thickness to the capacity of its throat opening; also slate without cracking. Depth of throat $1\frac{1}{8}$ in. Tools installed with $\frac{1}{16}$ in. punch and die, other sizes supplied if wanted.

Each
No. 18—7 in. Long, with One Punch and Die, Weight
Each 16 Oz. \$3.50
One in a Box.

Per Set
No. 1PD—Six Punches and Dies, One Each $\frac{3}{16}$, $\frac{1}{8}$,
 $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{8}$ and $1\frac{1}{4}$ in. \$5.00

WHITNEY



Main Parts Drop Forged Steel, Best Tool Steel Studs, Dies, Punches, Etc.

Each
No. 2—Whitney, 23 in. Long Over All, Capacity
 $\frac{3}{16}$ in. Hole in $\frac{1}{4}$ in. Iron, or Equivalent.
Weight Each 13 Lbs. \$15.00

EXTRA DIES AND PUNCHES

| Size, Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{8}$ | $1\frac{1}{4}$ |
|--------------|---------------|----------------|---------------|----------------|---------------|---------------|----------------|
| Each | \$0.45 | .45 | .45 | .45 | .45 | .45 | .45 |

Most powerful and easiest operated Hand Metal Punch on the market. Can be used anywhere with or without vise, in machine, and repair shops, boiler shops, by cornice, tank and stack builders. Simple in operation.

When ordering, always state size to be punched.

SCREW PUNCHES

CAST STEEL

With One Punch and Die

When ordering, state size of hole to be punched.

Depth of throat is distance from center of punch.

| Nos. | 0 | 1 | 2 | 3 |
|----------------------------|----------------|----------------|----------------|---------------|
| Punches Hole, Inches | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| For Thickness of Metal In. | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Depth of Throat, Inches | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $2\frac{1}{4}$ | 3 |
| Weight Each, Lbs. | 17 | 27 | 40 | 60 |
| Each | \$24.00 | 30.00 | 40.00 | 60.00 |
| Extra Punches, Each | 2.10 | 2.40 | 2.40 | 3.00 |
| Extra Dies, Each | 1.40 | 1.60 | 1.60 | 2.00 |

Note—When ordering Extra Punches and Dies, always specify size to be punched, also state number of Screw Punch in which they are to be used.

SPRING PUNCHES

SINGLE TUBE



With Drive Tubes

Forged Steel, Polished, Flat Steel Spring. Per Dozen
No. 239—8 in. Long, Assorted Tubes, 2 to 10/32nds.

Weight Per Dozen $5\frac{1}{4}$ Lbs. \$5.60
Extra Tubes 1.60
One-half Dozen in a Box.

REVOLVING FOUR TUBE



With Drive Tubes

Forged Steel, Polished, Flat Steel Spring. Per Dozen
No. 224—8 in. Long, Tubes Assorted Sizes, Weight

Per Dozen 9 Lbs. \$13.00
Extra Tubes 1.60
One-half Dozen in a Box.

REVOLVING SIX TUBE



With Drive Tubes

Forged Steel, Polished, Flat Steel Spring. Per Dozen
No. 225—8 in. Long, Tubes Assorted Sizes, Weight

Per Dozen $9\frac{1}{2}$ Lbs. \$17.00
One-half Dozen in a Box.

KRAEUTER REVOLVING



No. 18.

High Grade Forged Steel Handles and Jaws, "Don't Slip" Knurled Handles, Highly Polished

Per Dozen
No. 18— $8\frac{3}{4}$ in. Long, 4 Best Quality Steel "Screw" Tubes, Nos. 4, 6, 7 and 9, Weight Per Dozen $9\frac{1}{2}$ Lbs. \$18.00

No. 19— $8\frac{3}{4}$ in. Long, 6 Best Quality Steel "Screw" Tubes, Nos. 4, 5, 6, 7, 8 and 9, Weight Per Dozen $9\frac{1}{2}$ Lbs. 20.00
One-half Dozen in a Box.

SADDLERS PUNCHES

PENTO



Forged Steel, Full Polished

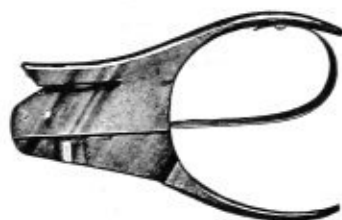
| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Size Hole, In. | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{1}{2}$ |
| Wt. Dozen, Oz. | 9 | 9 | 11 | 12 | 13 | 13 | 16 |
| Per Dozen | \$3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.50 |

| Nos. | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Size Hole, In. | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Wt. Dozen, Oz. | 16 | 16 | 20 | 32 | 32 | 34 | 36 |
| Per Dozen | \$3.50 | 3.50 | 4.30 | 4.30 | 4.30 | 7.10 | 7.10 |

One Dozen in a Box.

TICKET PUNCHES

CONDUCTORS



Nickel Plated

Forged Steel Frame, Tempered Steel Dies and Plunger, Assorted Designs.

No. 1—4 1/4 in. Long, Depth of Slot 7/8 in., Weight
Per Dozen 4 Lbs. \$30.00
One in a Box.

LONG REACH



Nickel Plated

Forged Steel Frame, Tempered Steel Die and Plunger, Assorted Designs.

No. 23—6 1/2 in. Long, Depth of Slot 2 in., Weight
Per Dozen 6 1/2 Lbs. \$24.00
One in a Box.

STANDARD



Nickel Plated

Forged Steel Frame, Tempered Steel Die and Plunger, Assorted Designs.

No. 11—4 1/2 in. Long, Depth of Slot 7/8 in., Weight
Per Dozen 3 Lbs. \$12.00
One in a Box.

BRIDGEPORT



With Reservoir

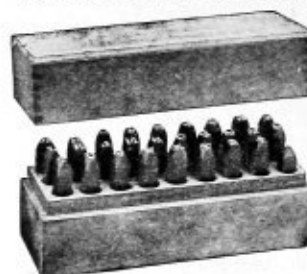
Sheet Steel, Nickel Plated, Tempered Steel Stripper and Main Spring, Scored Handles, Assorted Designs.

No. 32—5 in. Long, Weight Per Dozen 2 1/4 Lbs. \$6.00

The reservoir holds the clippings, thus preventing them littering the floor.

One-half Dozen in a Box.

STEEL LETTERS AND FIGURES



Machine Made

Roman Style, Forged Steel, Carefully Drawn, Hardened and Tempered, will cut sharp and true, adapted for stamping Soft Steel, Iron, Brass, Wood, Fibre, etc.

Figures, in Sets

| | | | | | |
|------------------------|--------|-------|-------|-------|-------|
| Size, Inches | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 |
| Weight Per Set, Lbs. . | 1 1/2 | 1 1/2 | 5/8 | 1 | 1 1/2 |
| Per Set | \$0.90 | .90 | .90 | 1.13 | 1.25 |
| Size, Inches | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
| Weight Per Set, Lbs. . | 1 1/4 | 1 5/8 | 2 3/8 | 2 3/4 | 2 3/4 |
| Per Set | \$1.50 | 1.75 | 2.50 | 3.50 | 4.50 |

A Set of Figures consists of Nos. 1, 2, 3, 4, 5, 6, 7, 8 and 0. No. 6 is used for figure 9 by reversing.

Letters, in Sets

| | | | | | |
|------------------------|--------|-------|-------|-------|-------|
| Size, Inches | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 |
| Weight Per Set, Lbs. . | 1 | 1 1/4 | 1 1/2 | 2 3/8 | 2 3/8 |
| Per Set | \$2.70 | 2.70 | 2.70 | 3.39 | 3.75 |
| Size, Inches | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
| Weight Per Set, Lbs. . | 3 1/4 | 4 7/8 | 6 1/4 | 7 | 7 |
| Per Set | \$4.50 | 5.25 | 7.50 | 10.50 | 13.50 |

A Set of Letters consists of 28 pieces, the complete Alphabet, with a period and character &.

Separate Letters and Figures

| | | | | | |
|------------------------|--------|------|-----|------|-----|
| Size, Inches | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 |
| Each | \$0.15 | .15 | .15 | .16 | .18 |
| Size, Inches | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
| Each | \$0.20 | .30 | .40 | .50 | .50 |

RIVET SETS

PEXTO TINNERS



No. 46—Especially Adapted for Sheet Metal Workers
Forged from High Quality Steel, Full Polished.

| | | | | |
|---------------------------|--------|--------|-------|-------|
| Sizes | 00 | 0 | 1 | 2 |
| Hole, Inches | 7/8 | 3/2 | 1 1/4 | 2 1/8 |
| Drill Size | 5/16 | 3/8 | 1/2 | 3/4 |
| For Iron Rivets, Lbs. . | 14 | 10, 12 | 7, 8 | 6 |
| For Copper Rivets, Nos. . | .. | 5 | 6 | 7 |
| Weight Per Dozen, Lbs. . | 10 1/2 | 10 1/2 | 6 3/4 | 6 3/4 |
| Each | \$1.05 | 1.05 | .90 | .90 |

| | | | | |
|---------------------------|--------|----------|----------|-------|
| Sizes | 3 | 4 | 5 | 6 |
| Hole, Inches | 1.910 | 1.660 | 1.495 | 1.405 |
| Drill Size | 11 | 19 | 25 | 28 |
| For Iron Rivets, Lbs. . | 4, 5 | 2 1/2, 3 | 1 3/4, 2 | 1 1/2 |
| For Copper Rivets, Nos. . | 8 | 9 | 10, 11 | 12 |
| Weight Per Dozen, Lbs. . | 5 | 5 | 5 | 2 3/4 |
| Each | \$0.70 | .70 | .55 | .55 |

Size 00 to 2, Two in a Box, Sizes 3 to 6, Six in a Box.

LACE LEATHER CUTTERS



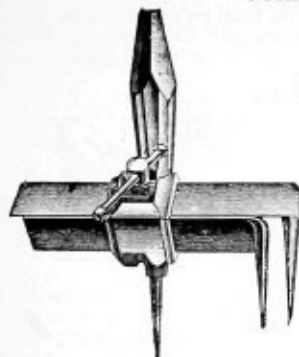
Steel, Polished Blade and Gauge, Black Enamelled Body

No. 1—Cuts 7/8 to 3/4 in. in Widths. \$6.00 Per Dozen

WASHER CUTTERS

JOHNSTON

Adjustable



No. 352—Usual, Will
Cut Washers up to
6 in. in Diameter,
Weight Per Dozen
3½ Lbs. \$10.50

No. 353—Large, Will
Cut Washers up to
8 in. in Diameter,
Weight Per Dozen
8½ Lbs. \$16.50

One-half Dozen in a Box.

HARGRAVE



With Graduated Gauge

Japanned Malleable Iron Body, Polished Tool Steel
Blades, For Cutting Leather, Rubber, Etc., with Bit Brace
Shank.

| | | |
|------------------------------|--------|------|
| Nos. | 405 | 407 |
| Capacity of Cut, Inches..... | 4 | 6 |
| Weight Each, Ozs..... | 5 | 5½ |
| Each | \$1.50 | 1.75 |

Six in a Box.

HARGRAVE DOUBLE HANDLE



With Graduated Scale

Japanned Malleable Iron Body, Polished Tool Steel
Blades, Stained Hardwood Handles.

No. 411—Capacity of Cut 4 to 20 in., Weight Each
1½ Lbs. \$2.50

Three in a Box.

CIRCLE METAL CUTTERS

HARGRAVE

With Graduated Scale



For cutting circular holes in
sheet metal, wood or fiber. Es-
pecially useful for installation of
Auto Clocks, etc.

The body of the tool is malle-
able iron, and the blades of best
tool steel, ground and tempered
for cutting metal.

Adjusted by knurled thumb
screw.

No. 1405—Capacity of Cut 1¼ to 5 in. and Up to 1
in. Deep, Weight Per Dozen 7 Oz. \$2.50
Six in a Box.

BEARING SCRAPERS

ENGINEERS



In Varnished Hardwood Case

High Grade Steel Tools, Full Polished, Ground Face.

No. 1750—Set of 6 Scrapers, One Each 8, 10 and 12
in. Bent Blade, One Double End and One Trian-
gular Blade, Weight Per Set 5 Lbs. \$5.00

MACHINISTS



Non-Chattering



Hand Forged Tool Steel,
Ground Sharp Edges, the
most perfect Bearing
Scraper made. Positively
non-chattering, polished
Blades, Ebony Shank,
Hardwood Handle.

No. 550—3 Scrapers, One Each 11½, 13¼ and
13¾ in. Long, Weight Per Set 1¾ Lbs. \$2.50

A leather pocket is put on the blade of each scraper
to protect the edges.

One Set in a Box.

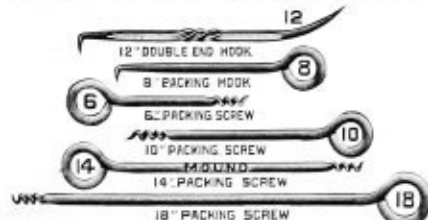
CARBON SCRAPERS



Designed for removing soot from the top of a piston
without taking off the head of the cylinder. Made of ¼-in.
crucible steel, hand forged, highly polished. Fastened in
applewood handles.

No. 1771—3 Scrapers, Weight Per Set ½ Lbs. \$1.80
One Set in a Box.

ENGINEERS PACKING TOOLS



High Grade Steel, Nickel Plated

No. 1 Set—4 Tools, One Each No. 6, 10, 12 and 14.
Weight Per Set 4 Oz. \$2.25
No. 6 Set—6 Tools, One Each No. 6, 8, 10, 12, 14 and
18, Weight Per Set 8 Oz. 3.25
One Set in a Box.

COTTER PIN EXTRACTORS



Hand Forged Steel, Ebony Finish

No. 834—5 in. Long, ⅜ in. Square, Weight Per Dozen
1½ Lbs. \$2.50
One Dozen in a Box.

ADJUSTABLE PLANES

STANLEY "BED" ROCK

In the Bedrock Planes the bottom of the Frog is machined so as to make it a tongue which fits into a groove formed in the bottom of the Plane. This insures great solidity and perfect alignment between the Frog and the bottom. The movement of the Frog in the groove for widening or opening the throat and the loosening or tightening of the Frog to the base of the plane is governed by screw adjustment which may be operated without removing the cap on the cutter. Rosewood Handles and Knobs.

SMOOTH



No. 603.

No. 604.

| With Smooth Bottom | | Each |
|---|--|--------|
| No. 602—7 in. Long, 1 3/8 in. Cutter, Weight Each 2 1/2 Lbs. | | \$4.25 |
| No. 603—8 in. Long, 1 3/4 in. Cutter, Weight Each 3 1/4 Lbs. | | 4.40 |
| No. 604—9 in. Long, 2 in. Cutter, Weight Each 3 3/4 Lbs. | | 4.85 |
| No. 604 1/2—10 in. Long, 2 3/8 in. Cutter, Weight Each 4 3/4 Lbs. | | 5.55 |

JACK AND FORE



No. 605.

| With Smooth Bottom | | Each |
|---|--|--------|
| No. 605—Jack, 14 in. Long, 2 in. Cutter, Weight Each 4 1/2 Lbs. | | \$5.55 |
| No. 605 1/2—Jack, 15 in. Long, 2 1/4 in. Cutter, Weight Each 6 1/2 Lbs. | | 6.25 |
| No. 606—Fore, 18 in. Long, 2 3/8 in. Cutter, Weight Each 7 3/4 Lbs. | | 7.10 |

JOINTER



| With Smooth Bottom | | Each |
|---|--|--------|
| No. 607—22 in. Long, 2 3/8 in. Cutter, Weight Each 8 3/4 Lbs. | | \$8.15 |
| No. 608—24 in. Long, 2 3/8 in. Cutter, Weight Each 9 3/4 Lbs. | | 9.70 |

SMOOTH, JACK, FORE AND JOINTER



No. 603C.

No. 606C.

| With Corrugated Bottom | | Each |
|---|--|--------|
| No. 603C—Smooth, 8 in. Long, 1 3/8 in. Center, Weight Each 3 1/4 Lbs. | | \$4.65 |
| No. 604C—Smooth, 9 in. Long, 2 in. Cutter, Weight Each 3 3/4 Lbs. | | 5.10 |
| No. 605C—Jack, 14 in. Long, 2 in. Cutter, Weight Each 4 1/2 Lbs. | | 5.85 |
| No. 606C—Fore, 18 in. Long, 2 3/8 in. Cutter, Weight Each 7 3/4 Lbs. | | 7.50 |
| No. 607C—Jointer, 22 in. Long, 2 3/8 in. Cutter, Weight Each 8 3/4 Lbs. | | 8.55 |
| No. 608C—Jointer, 24 in. Long, 2 3/8 in. Cutter, Weight Each 9 3/4 Lbs. | | 10.20 |

All Above, One in a Box.

BAILEY IRON BENCH

In the Bailey Plane the Frog may be adjusted for width of throat opening after removing the Cap and the Cutter and slightly loosening the screws. Rosewood Handle and Knob.

SMOOTH



No. 3.

No. 4.

| With Smooth Bottom | | Each |
|---|--|--------|
| No. 1—5 1/2 in. Long, 1 1/4 in. Cutter, Weight Each 1 1/4 Lbs. | | \$3.00 |
| No. 2—7 in. Long, 1 3/8 in. Cutter, Weight Each 2 1/4 Lbs. | | 3.85 |
| No. 3—8 in. Long, 1 3/4 in. Cutter, Weight Each 3 3/4 Lbs. | | 4.00 |
| No. 4—9 in. Long, 2 in. Cutter, Weight Each 3 3/4 Lbs. | | 4.40 |
| No. 4 1/2—10 in. Long, 2 3/8 in. Cutter, Weight Each 4 3/4 Lbs. | | 5.00 |

JACK, FORE AND JOINTER



No. 5.

| With Smooth Bottom | | Each |
|---|--|--------|
| No. 5—Jack, 14 in. Long, 2 in. Cutter, Weight Each 4 3/4 Lbs. | | \$5.00 |
| No. 5 1/2—Jack, 11 1/2 in. Long, 1 3/4 in. Cutter, Weight Each 3 3/4 Lbs. | | 4.50 |
| No. 5 1/2—Jack, 15 in. Long, 2 1/4 in. Cutter, Weight Each 6 3/4 Lbs. | | 5.70 |
| No. 6—Fore, 18 in. Long, 2 3/8 in. Cutter, Weight Each 7 3/4 Lbs. | | 6.50 |
| No. 7—Jointer, 22 in. Long, 2 3/8 in. Cutter, Weight Each 8 Lbs. | | 7.40 |
| No. 8—Jointer, 24 in. Long, 2 3/8 in. Cutter, Weight Each 9 3/4 Lbs. | | 8.85 |

SMOOTH, JACK, FORE AND JOINTER



No. 6C.

| With Corrugated Bottom | | Each |
|--|--|--------|
| No. 3C—Smooth, 8 in. Long, 1 3/8 in. Cutter, Weight Each 3 Lbs. | | \$4.20 |
| No. 4C—Smooth, 9 in. Long, 2 in. Cutter, Weight Each 3 3/4 Lbs. | | 4.60 |
| No. 4 1/2C—Smooth, 10 in. Long, 2 3/8 in. Cutter, Weight Each 4 3/4 Lbs. | | 5.30 |
| No. 5C—Jack, 14 in. Long, 2 in. Cutter, Weight Each 4 3/4 Lbs. | | 5.30 |
| No. 5 1/2C—Jack, 11 1/2 in. Long, 1 3/4 in. Cutter, Weight Each 3 3/4 Lbs. | | 4.75 |
| No. 5 1/2C—Jack, 15 in. Long, 2 1/4 in. Cutter, Weight Each 6 3/4 Lbs. | | 6.00 |
| No. 6C—Fore, 18 in. Long, 2 3/8 in. Cutter, Weight Each 7 3/4 Lbs. | | 6.80 |
| No. 7C—Jointer, 22 in. Long, 2 3/8 in. Cutter, Weight Each 8 Lbs. | | 7.80 |
| No. 8C—Jointer, 24 in. Long, 2 3/8 in. Cutter, Weight Each 9 3/4 Lbs. | | 9.30 |

All Above, One in a Box.

ADJUSTABLE STEEL PLANES

STANLEY



No. S4.

With Smooth Bottoms.

Rosewood Handles and Knobs.

These Planes are similar in design to the regular Bailey Iron Plane, but are of forged steel construction. They have the toughness to withstand a blow from a fall or other cause that would break the regular iron plane.

| | |
|---|--------|
| No. S4—Smooth, 9 in. Long, 2 in. Cutter, Weight | Each |
| Each 3 Lbs. | \$4.85 |
| No. S5—Jack, 14 in. Long, 2 in. Cutter, Weight | Each |
| Each 3 3/4 Lbs. | 5.55 |

One in a Box.

ADJUSTABLE ALUMINUM PLANES

STANLEY

These new Planes are the regular Stanley "Bailey" type of Bench Planes having the same adjustable features as regards the frogs and cutters. The bottom and frogs are made of Aluminum instead of iron which provides an exceptionally light tool that will not rust. They are equipped with rosewood handles and knobs.

SMOOTH



With Smooth Bottom

| | |
|---|--------|
| No. A4—9 in. Long, 2 in. Cutter, Weight | Each |
| Each 2 1/4 Lbs. | \$5.80 |

One in a Box.

JACK

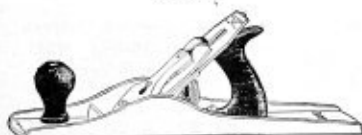


With Smooth Bottom

| | |
|--|--------|
| No. A5—14 in. Long, 2 in. Cutter, Weight | Each |
| Each 2 1/2 Lbs. | \$6.60 |

One in a Box.

FORE



With Smooth Bottom

| | |
|--|--------|
| No. A6—18 in. Long, 2 3/4 in. Cutter, Weight | Each |
| Each 3 1/2 Lbs. | \$8.80 |

One in a Box.

ADJUSTABLE IRON PLANES

GAGE SELF-SETTING

The Self-Setting Feature lies in the fact that the Plane Iron, if taken out to be sharpened, goes back in exactly the same position as before removed. Rosewood handle and knob, iron body.



No. G4.



No. G5.

With Smooth Bottoms

| | |
|---|--------|
| No. G4—Smooth, 9 in. Long, 2 in. Cutter, Weight | Each |
| Each 3 Lbs. | \$4.60 |
| No. G5—Jack, 14 in. Long, 2 in. Cutter, Weight | Each |
| Each 4 1/4 Lbs. | 5.30 |
| No. G6—Fore, 18 in. Long, 2 1/4 in. Cutter, Weight | Each |
| Each 5 3/4 Lbs. | 6.80 |
| No. G7—Jointer, 22 in. Long, 2 1/2 in. Cutter, Weight | Each |
| Each 6 1/2 Lbs. | 7.80 |



No. G4C



No. G5C

With Corrugated Bottoms

| | |
|--|--------|
| No. G4C—Smooth, 9 in. Long, 2 in. Cutter, Weight | Each |
| Each 3 Lbs. | \$4.85 |
| No. G5C—Jack, 14 in. Long, 2 in. Cutter, Weight | Each |
| Each 4 1/4 Lbs. | 5.55 |
| No. G6C—Fore, 18 in. Long, 2 1/4 in. Cutter, Weight | Each |
| Each 5 3/4 Lbs. | 7.15 |
| No. G7C—Jointer, 22 in. Long, 2 1/2 in. Cutter, Weight | Each |
| Each 6 1/2 Lbs. | 8.15 |

The upper part of the plane irons of these planes are cast and has a steel bottom fastened to it by screws.

One in a Box.

SIEGLEY

These Planes have cutters adjustable lengthwise and laterally. The cutters are solid steel, very thin for fine work. They have varnished hardwood handles and knobs.

SMOOTH



With Corrugated Bottoms

| | |
|--|--------|
| No. S4C—Smooth, 9 in. Long, 2 in. Cutter, Weight | Each |
| Each 3 Lbs. | \$4.40 |

JACK, FORE AND JOINTER



With Corrugated Bottoms

| | |
|--|--------|
| No. S5C—Jack, 14 in. Long, 2 in. Cutter, Weight | Each |
| Each 4 Lbs. | \$5.00 |
| No. S6C—Fore, 18 in. Long, 2 1/4 in. Cutter, Weight | Each |
| Each 5 1/2 Lbs. | 6.50 |
| No. S7C—Jointer, 22 in. Long, 2 3/4 in. Cutter, Weight | Each |
| Each 6 1/2 Lbs. | 7.40 |
| No. S8C—Jointer, 24 in. Long, 2 1/2 in. Wide, Weight | Each |
| Each 9 1/2 Lbs. | 8.80 |

One in a Box.

WOOD BOTTOM PLANES

BAILEY ADJUSTABLE

A Wood Plane of Superior Quality. The Bottom, Handle, and Knob are made from selected and well seasoned beech, the Cutters are the regular "Bailey" Type, and are adjustable both endwise and sidewise.

The Frog is held in place by two machine screws which pass through the top iron and screw into two brass lugs. These lugs are screwed and securely pinned into the wood bottom. This method holds the wood bottom and top iron firmly together. Black Japanned Iron Frame.

HANDLED, SMOOTH



- Each
- No. 35—9 in. Long, 2 in. Cutter, Weight Each 3 1/4 Lbs. \$4.20
- No. 36—10 in. Long, 2 3/4 in. Cutter, Weight Each 4 Lbs. 4.75
- One in a Box.

JACK, FORE AND JOINTER



- Each
- No. 26—Jack, 15 in. Long, 2 in. Cutter, Weight Each 3 3/4 Lbs. \$3.70
- No. 27 1/2—Jack, 15 in. Long, 2 1/4 in. Cutter, Weight Each 4 3/4 Lbs. 4.30
- No. 28—Fore, 18 in. Long, 2 3/4 in. Cutter, Weight Each 5 1/2 Lbs. 4.70
- No. 31—Jointer, 24 in. Long, 2 3/4 in. Cutter, Weight Each 6 1/2 Lbs. 5.05
- No. 32—Jointer, 26 in. Long, 2 3/4 in. Cutter, Weight Each 7 5/8 Lbs. 5.45
- One in a Package.

WOOD BENCH PLANES

SMOOTH



- Beechwood
- Each
- No. 3—8 in. Long, 2 in. Double Iron, Polished Start, Average Weight Each 1 1/2 Lbs. \$2.00

JACK



- Beechwood
- Each
- No. 13—16 in. Long, 2 in. Double Iron, Polished Start, Average Weight Each 4 Lbs. \$2.30

FORE

- Beechwood
- Each
- No. 19—22 in. Long, 2 3/4 in. Double Iron, Polished Start, Average Weight 6 Lbs. \$3.80

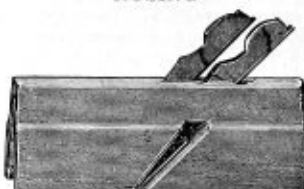
FANCY WOOD PLANES

SKEW RABBIT



- No. 146—Beechwood, Forged Steel Cutter
- | | | | | | | | |
|-------------------|--------|------|------|------|-------|-------|-------|
| Width Cutter, In. | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Wt. Each, Lbs. | 3/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 5/8 |
| Each | \$2.30 | 2.30 | 1.40 | 1.40 | 1.40 | 1.50 | 1.60 |

NOSING



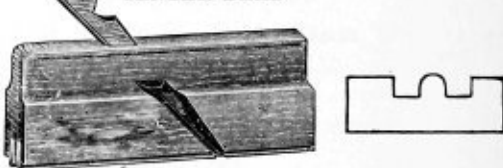
- No. 113—Beechwood, Forged Steel Double Cutters
- | | | | | |
|----------------------|--------|-------|-------|-------|
| Width Cutter, Inches | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Weight Each, Lbs. | 1 1/4 | 1 1/2 | 1 3/4 | 1 5/8 |
| Each | \$3.20 | 3.20 | 3.20 | 3.70 |

SIDE BEAD



- No. 47—Beechwood, Forged Steel Cutter, Single Boxed
- | | | | | | |
|----------------------|--------|------|------|-------|-------|
| Width Cutter, Inches | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Weight Each, Lbs. | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 |
| Each | \$1.70 | 1.70 | 1.70 | 1.70 | 1.70 |

CENTER BEAD

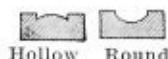


- No. 51—Beechwood, Forged Steel Cutter, Double Boxed
- | | | | | | |
|----------------------|--------|------|------|-------|-------|
| Width Cutter, Inches | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Weight Each, Lbs. | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 |
| Each | \$2.00 | 2.00 | 2.00 | 2.00 | 2.00 |

HOLLOWS AND ROUNDS

The Round Plane Cuts the Hollow, and the Hollow Plane Cuts the Round.

Note—When Ordering Separate Planes, Always State Whether the Hollow or Round Plane is Wanted.



- Hollow Round
- Beechwood, Forged Steel Cutters
- | | | | | | |
|-----------------------|--------|-------|-------|-------|-------|
| Nos. | 92A | 92B | 92C | 92D | 92E |
| Width Cutter, Inches | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Circle Worked, Inches | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Weight Pair, Lbs. | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Per Pair | \$3.20 | 3.20 | 3.20 | 3.20 | 3.20 |
| Nos. | 92F | 92G | 92H | 92I | |
| Width Cutter, Inches | 3/4 | 1 | 1 1/4 | 1 1/2 | |
| Circle Worked, Inches | 1 1/4 | 2 | 2 1/4 | 2 1/2 | |
| Weight Pair, Lbs. | 2 1/4 | 2 3/4 | 2 1/2 | 3 | |
| Per Pair | \$3.20 | 3.60 | 3.60 | 3.60 | |

IRON BLOCK PLANES

STANLEY



Non-Adjustable

Japanned Iron Frame, English Steel Cutter, Tempered and Ground, Honed Ready for Use. Each

No. 101—3½ in. Long, 1 in. Cutter, Weight Each ¼ Lb. \$0.45



Non-Adjustable

Japanned Iron Frame, English Steel Cutter, Tempered and Ground, Honed Ready for Use. Each

No. 100—3½ in. Long, 1 in. Cutter, Weight Each ¾ Lb. \$0.55



Non-Adjustable

Japanned Iron Frame, Polished Face, English Steel Cutter, Tempered and Ground, Honed Ready for Use. Each

No. 102—5½ in. Long, 1½ in. Cutter, Weight Each ¾ Lb. \$0.85



Endwise Lever Adjustment

Japanned Iron Frame, Polished Face, English Steel Cutter, Tempered and Ground, Honed Ready for Use. Each

No. 103—5½ in. Long, 1½ in. Cutter, Weight Each ¾ Lb. \$1.20



Non-Adjustable

Japanned Iron Frame, Polished Sides and Face, Stained Applewood Knob. Each

No. 110—7 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$1.20



Endwise Lever Adjustment

Japanned Iron Frame, Polished Sides and Face, Rosewood Knob. Each

No. 120—7 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$1.65



Endwise Screw Adjustment

Japanned Iron Frame, Polished Sides and Face, Nickel Plated Adjusting Screw, Rosewood Knob, Lever Cap. Each

No. 220—7 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$1.70

All Above, One in a Box.

IRON BLOCK PLANES

BAILEY ADJUSTABLE



Adjustable Throat

Iron, Frame, Japanned Trimmings, Polished sides and Face, Handy Grip, Endwise Screw and Lateral Lever Adjustment. Each

No. 9½—6 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$2.30

No. 15—7 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. 2.75



Adjustable Throat

Iron Frame, Nickel Plated Trimmings, Polished Sides and Face, Handy Grip, Endwise Screw and Lateral Lever Adjustment. Each

No. 16—6 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$2.60

No. 17—7 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. 2.80



Adjustable Throat, Knuckle Joint

Japanned Iron Frame, Polished Sides and Face, Nickel Plated Trimmings, Handy Grip, Endwise Screw and Lateral Lever Adjustment. Each

No. 18—6 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$3.00

No. 19—7 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. 3.20

The knuckle joint permits a great leverage, consequently the lever can be placed in position or removed with very little effort.

STANLEY LOW ANGLE



Adjustable Throat, Low Angle

Iron Frame, Polished Sides and Face, Japanned Trimmings, Handy Grip, Endwise Adjustment. The Cutter Rests on its Seat at an Angle of 12 Degrees. Each

No. 60½—6 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$2.40

No. 65½—7 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. 2.60



Adjustable Throat

Iron Frame, Polished Sides and Face, Nickel Plated Trimmings, Handy Grip, Endwise Adjustment, Cutter Rests on its Seat at an Angle of 12 Degrees. Each

No. 60—6 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$2.65



Knuckle Joint, Adjustable Throat

Endwise Screw Adjustment, Nickel Plated Trimmings, with Handy Grip. Each

No. 65—7 in. Long, 1½ in. Cutter, Weight Each 1½ Lbs. \$3.15

All Above, One in a Box.

IRON BLOCK PLANES

STANLEY DOUBLE END



Double End, Block and Bull Nose

Japanned Iron Frame, Polished Face and Sides, Hardwood Knob. Each

No. 130—8 in. Long, 1 1/2 in. Cutter, Weight Each 1 1/2 Lbs. \$1.70
One in a Box.

STANLEY DOUBLE END ADJUSTABLE



Double End, Block and Bull Nose

Japanned Iron Frame, Polished Face and Sides, Cutter Adjustable Endwise, Handy Grip, Rosewood Knob. Each

No. 131—8 in. Long, 1 1/2 in. Cutter, Weight Each 1 1/2 Lbs. \$2.80
One in a Box.

STEEL BLOCK PLANES

STANLEY



Knuckle Joint Cap, with Handy Grip

Made Entirely of Steel; Practically Indestructible. Each

No. 818—6 in. Long, 1 1/2 in. Cutter, Weight Each 1 1/4 Lbs. \$3.50
One in a Box.

ALUMINUM BLOCK PLANES

STANLEY



Knuckle Joint Cap, with Handy Grip

Aluminum Bottom and Adjustable Front, Steel Lever Cap. An exceptionally light tool that will not rust. Each

No. A18—6 in. Long, 1 1/2 in. Cutter, Weight Each 1 1/4 Lbs. \$3.50
One in a Box.

ADJUSTABLE IRON PLANES

STANLEY RABBET AND BLOCK



With Detachable Side

Rosewood Knob with Detachable Side, Nickel Plated Trimmings. Each

No. 140—7 in. Long, 1 1/4 in. Cutter, Weight Each 1 1/2 Lbs. \$3.00

The detachable side will easily change this tool from a Block Plane to a Rabbit Plane or vice versa. The cutter is set on a skew and is adjustable endwise.

One in a Box.

ADJUSTABLE IRON PLANES

STANLEY BULL NOSE RABBET



Adjustable Mouth

Japanned Iron Frame, Polished Face. Each

No. 75—4 in. Long, 1 in. Cutter, Weight Each 1 1/2 Lb. \$0.75

Very useful for working close up into corners or other difficult places. The mouth can be adjusted for different widths by means of the set screw on top of the plane.

One in a Box.

STANLEY SIDE RABBET



No. 98.



No. 99.

With Depth Gauge

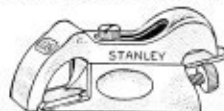
For side rabbeting in trimming dados, mouldings and grooves of all sorts. A reversible nose piece gives the tool a form whereby it will work close up in corners. Fitted with depth gauge. Each

No. 98—4 in. Long, Right Hand, 1/2 in. Cutter, Nickel Plated, Rosewood Knob, Weight Each 1/2 Lb. . . \$2.20

No. 99—4 in. Long, Left Hand, 1/2 in. Cutter, Nickel Plated, Rosewood Knob, Weight Each 1/2 Lb. . . 2.20

One in a Box.

STANLEY CABINET MAKERS RABBET



Adjustable Throat, Endwise Screw Adjustment

Iron, Nickel Plated, with "Handy" Feature on the Side which Forms a Convenient Grip for the Hand. Each

No. 90—4 in. Long, 1 in. Cutter, Weight Each 1 Lb. . \$4.00

Adapted for fine cabinet or other work where extreme accuracy is desired. It will lie perfectly flat on either side and can be worked with either right or left hand.

This Plane is of the Bull Nose Pattern so that it can be used close up into corners or other difficult places.

One in a Box.

STANLEY CARRIAGE MAKERS RABBET



Adjustable Cutters, Rosewood Handle and Knob, Japanned Iron Frame. Each

No. 10 1/2—9 in. Long, 2 1/4 in. Cutter, Weight Each 3 Lbs. \$5.30

No. 10—13 in. Long, 2 1/4 in. Cutter, Weight Each 4 1/4 Lbs. 6.40

Especially adapted for the heavy framing required in mining work, or carriage or wagon building, or any other work of similar nature.

One in a Box.

ADJUSTABLE IRON PLANES

STANLEY RABBIT



With Adjustable Depth Gauge

Japanned Iron Stock, 8 in. Long, with Spur for Working Across Grain.

| | | | |
|-------------------|--------|-------|------|
| Nos. | 190 | 191 | 192 |
| Cutter, Inches | 1 1/2 | 1 3/4 | 1 |
| Weight Each, Lbs. | 2 1/2 | 2 3/4 | 2 |
| Each | \$2.95 | 2.80 | 2.60 |

These Planes will lie perfectly flat on either side and can be used with right or left hand while planing into corners or up against perpendicular surfaces. They are fitted with a spur and a detachable depth gauge.

One in a Box.

STANLEY IMPROVED RABBIT AND FILLETSTER



Japanned Iron Stock, Two Spurs and Adjustable Depth Gauge

This Plane will lie perfectly flat on either side and has an adjustable fence for regulating width of cut.

It is fitted with two spurs and an adjustable depth gauge. The front part of the plane can be detached for bull nose work. The cutter is adjustable endwise.

No. 278—6 3/4 in. Long, 1 in. Cutter, Weight Each 2 Lbs.

One in a Box.

STANLEY DUPLEX, FILLETSTER AND RABBIT



With Adjustable Depth Gauge

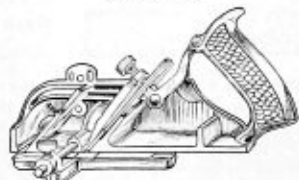
Japanned Iron Frame, Adjustable Fence, Detachable Depth Gauge.

No. 78—8 1/2 in. Long, 1 1/2 in. Cutter, Weight Each 3 Lbs.

These Planes have two seats for the cutters, one for regular work and the other where a bull nose is required. The adjustable fence can be used on either side and slides under the bottom, regulating the width of the cut. To work same as a rabbit plane, remove fence and arm.

One in a Box.

STANLEY ALUMINUM DUPLEX FILLETSTER AND RABBIT



With Adjustable Depth Gauge

Similar in design to the Regular No. 78 Stanley Iron Plane. Being made of Aluminum it is exceptionally light and will not rust.

No. A78—8 1/2 in. Long, 1 1/2 in. Cutter, Weight Each 1 1/4 Lbs.

One in a Box.

ADJUSTABLE IRON PLANES

STANLEY HANDLED IRON DADO



With Adjustable Depth Gauge

Japanned Iron Stock, 8 in. Long, with Skew Cutters and Two Adjustable Spurs.

| | | | | |
|-------------------|--------|--------|--------|--------|
| Nos. | 39 1/4 | 39 3/8 | 39 1/2 | 39 5/8 |
| Length, Inches | 8 | 8 | 8 | 8 |
| Width, Inches | 1 1/4 | 1 3/8 | 1 1/2 | 1 5/8 |
| Weight Each, Lbs. | 1 3/4 | 1 3/4 | 1 3/4 | 2 |
| Each | \$2.90 | 3.10 | 3.30 | 3.45 |

| | | | |
|-------------------|--------|--------|-------|
| Nos. | 39 3/4 | 39 7/8 | 39 1 |
| Length, Inches | 8 | 8 | 8 |
| Width, Inches | 1 3/4 | 1 3/4 | 1 3/4 |
| Weight Each, Lbs. | 2 | 2 1/4 | 2 1/4 |
| Each | \$3.60 | 3.80 | 3.95 |

One in a Box.

STANLEY SCRUB



Round Edge Bit

Japanned Iron Frame, Beechwood Handle and Knob.

No. 40—9 1/2 in. Long, 1 1/8 in. Cutter, Weight Each 2 1/4 Lbs.

No. 40 1/2—10 1/2 in. Long, 1 1/2 in. Cutter, Weight Each 2 1/2 Lbs.

For planing down to a rough dimension any board that is too wide to conveniently rip with a hand saw. This is made possible by reason of the peculiar shape of the extra heavy cutter.

One in a Box.

STANLEY EDGE TRIMMING



Japanned Iron Body, English Steel Cutter

No. 95—6 in. Long, 7/8 in. Cutter, Weight Each 1 1/4 Lbs.

For trimming or smoothing the edge of boards for a square or close fit. The cutter works on a skew. Wood blocks of various bevels may be attached enabling the user to make a slanting cut.

One in a Box.

STANLEY BELT MAKERS



With Adjustable Throat

Japanned Iron Body, Hardwood Handle, Cutter Adjustable Endwise.

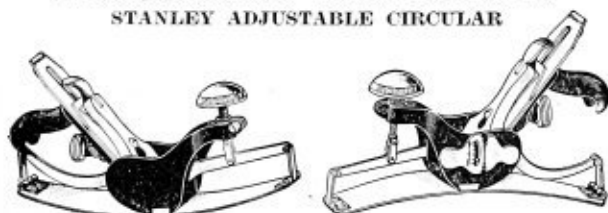
No. 11—5 3/4 in. Long, 2 3/8 in. Cutter, Weight Each 3 1/2 Lbs.

This Plane is used for chamfering down the ends of belts before fastening them together.

One in a Box.

ADJUSTABLE IRON PLANES

STANLEY ADJUSTABLE CIRCULAR



With Graduated Scale for Setting Face

Japanned Iron Frame, Nickel Plated Trimmings. Each
No. 113—10 in. Long, 1 3/4 in. Cutter, Weight Each
3 1/2 Lbs. \$7.45

This plane has a flexible steel face which can be accurately adjusted for planing the inside or outside of circles. The face is fastened at its center to the plane body, and adjusted at the ends by means of a screw and levers.

One in a Box.

VICTOR ADJUSTABLE



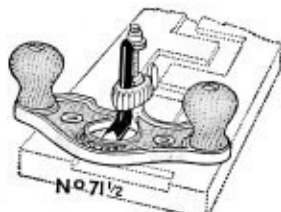
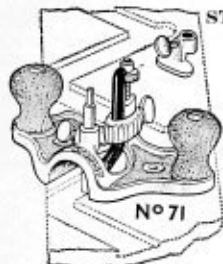
For Inside or Outside Circles

Black Japanned Finish, Cutters adjustable endwise and sidewise. Center Screw Adjustment with Stop. Each

No. 20—10 in. Long 1 3/4 in. Cutter, Weight Each 4
Lbs. \$9.15

One in a Box.

STANLEY ROUTER



With Two Cutters

For surfacing the bottom of grooves or other depressions parallel with the surface of the work. A wooden bottom of any size can be attached, enabling the user to router on large openings. A 1/4 and 1/2 in. cutter and a patented smoothing cutter furnished with each plane. Each

No. 71—Open Throat, 7 1/2 in. Long, Nickel Plated Beech Handles with Cutters and Attachments for Closing Throat on Narrow Surfaces and Regulating Depth of Cut, Weight Each 2 5/8 Lbs. \$4.10

No. 71 1/2—Closed Throat, 7 1/2 in. Long, Nickel Plated Complete with Cutters, Weight Each 2 1/2 Lbs. 3.20

One in a Box.

STANLEY CORE BOX
With One Pair of Sections

Nickel Plated Iron Frame, Beechwood Handle and Knob.

For making Circular Core Boxes either Straight or Tapered. The Sides of the Plane are at right angles, consequently the point of the Plane will always cut on the circumference of the circle when the sides rest on the edges of the cut.

Adapted for large Core Boxes, working Semi-circles from 1 to 2 1/2 in. diameter, and with extra sizes up to 5 in. diameter. Each

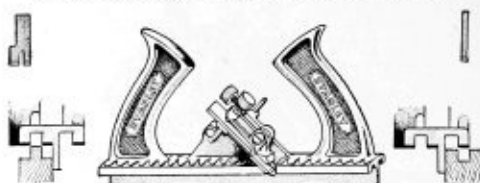
No. 57—10 in. Long, 3/8 in. Cutter, Weight Each 6 3/4
Lbs. \$8.65

Additional Sides—Each Pair Adding 2 1/2 in. to Diameter of Semi-circle. \$1.90



ADJUSTABLE IRON PLANES

STANLEY DOUBLE END MATCHING



Nickel Plated Iron Handles and Body

These Planes have two cutters, a plow, and a tongue tool, both governed by one permanent fence. The tongue tool has one edge wider than the other, which overhangs one side when tonguing on center. Both tongue and groove are cut by working the tool in the same direction, by merely reversing it end for end.

Each

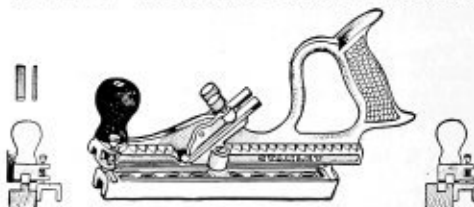
No. 146—Cuts 1/8 in. Groove on 3/8 to 1/2 in. Boards, Centers on 3/8 in., Weight Each 1 1/2 Lbs. \$4.00

No. 147—Cuts 3/16 in. Groove on 1/2 to 3/4 in. Boards, Centers on 3/8 in., Weight Each 1 3/8 Lbs. 4.25

No. 148—Cuts 1/4 in. Groove on 3/4 to 1 in. Boards, Centers on 7/8 in., Weight Each 2 3/8 Lbs. 4.50

One in a Box.

STANLEY SWINGING FENCE MATCHING



These Planes have two cutters of the same width, and one extra wide cutter. The fence in one setting exposes two cutters for cutting the tongue, and, when reversed, leaves only one exposed for cutting the groove. On thicker boards than the plane works on center, the extra wide cutter is used when cutting the tongue.

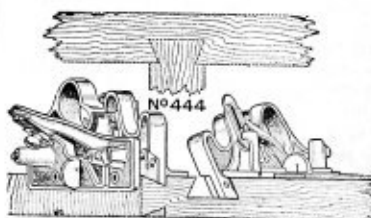
Each

No. 48—Cuts 3/8 in. Groove on Boards 3/4 to 1 1/4 in., Centers on 7/8 in., Weight Each 3 3/4 Lbs. \$5.30

No. 49—Cuts 3/8 in. Groove on Boards 1 1/2 to 3 in., Centers on 1 1/2 in., Weight Each 2 3/8 Lbs. 5.30

One in a Box.

STANLEY DOVETAIL TONGUE AND GROOVE



The Only Plane Manufactured That Will Cut a Dovetail.

Each

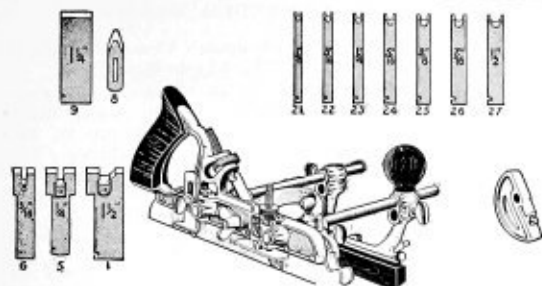
No. 444—9 in. Long, Nickel Plated, Wt. Each 6 Lbs. \$10.95

It will cut any size grooves and tongues to fit with sides at flare of 20 degrees, where the width of the neck is more than one-quarter of an inch and the depth of groove not more than three-quarters of an inch. The tongue and groove are cut separately and can be made with parallel or tapering sides.

Its compactness is shown in the illustration, where the cut on the left shows the plane assembled for cutting the tongue, and that on the right for cutting the groove. A circular containing complete instructions for assembling and operating is packed with each tool.

One in a Box.

COMBINATION PLANES



STANLEY PLOW, BEADING, RABBIT AND MATCHING

Seven Tools in One, in Compact and Practical Form

Each

No. 45—10 in. Long, Nickel Plated Stock and Fence, Rosewood Handle and Knob, Complete with 23 Cutters as Described Below, Weight Each 9 1/2 Lbs. . . . \$15.50
One in a Neat Steel Box, Complete with Cutters.

This Plane embraces in a compact and practical form (1) Beading and Center Beading Plane, (2) Plow, (3) Dado, (4) Rabbet and Filletster, (5) Match Plane, (6) Sash Plane, (7) Slitting Plane.

Each Plane is accompanied by seven Beading Tools (1/8, 3/16, 1/4, 5/16, 3/8, 7/16 and 1/2 in.); Eleven Plow and Dado Bits (1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8 and 1 in.); One 1 1/4 in. Filletster, One Slitting, One 3/8 in. Match Tool, One 1/4 in. Match Tool, and One 1 1/2 in. Sash Tool; Twenty-three Tools in all.

This Plane is fitted with spurs for use across the grain, etc., and can be used either right or left hand.

For beading at a distance from the edge of a board attach Cam Rest (see cut at right of plane) to the front arm between the sliding section and fence to prevent the fence sagging. In certain work attach the same to the rear arm to prevent the plane from rocking.

STANLEY ALUMINUM PLOW, BEADING, RABBIT AND MATCHING

Similar in Design to the Regular No. 45 Plane. Being Made of Aluminum it is an Exceptionally Light Weight Tool that Will Not Rust

No. A45—Aluminum, with 23 Cutters, Weight Each 7 3/4 Lbs. . . . \$18.50

STANLEY HOLLOW AND ROUNDS

For Use on No. 45 Plane Only and Not Included in Price of Plane

Sold in Sets, Each Set Comprises One Hollow, One Round and Two Cutters.

| Nos. | 6 | 8 | 10 | 12 |
|-----------------------|--------|------|-------|-------|
| Cutter, Inches | 1/2 | 5/8 | 3/4 | 1 |
| Works Circles, Inches | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Per Set | \$2.30 | 2.30 | 2.50 | 2.50 |



STANLEY NOSING TOOL

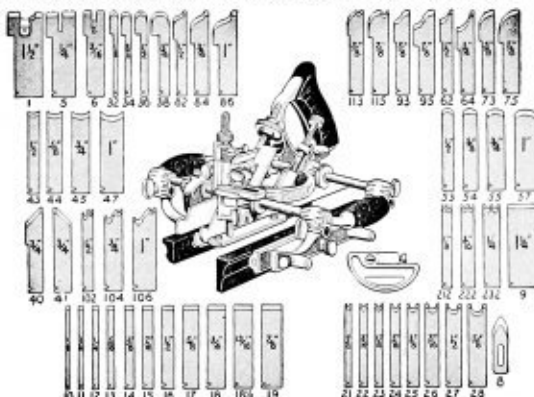
For Use on No. 45 Plane Only and Not Included in Price of Plane

This is a specially formed bottom. The tool and its cutter will form what might be called an exaggerated round as in shaping the edges of stair treads.

No. 5—Nosing Tool with One Cutter. . . . \$1.75



STANLEY PATENT UNIVERSAL COMBINATION



All metal parts of the planes are nickel plated. The handles and fence are made of selected rosewood, and every part is finished.

All parts are interchangeable.

This tool, in addition to being a Beading Plane, a Plow, Dado, Rabbet Filletster, Match Plane, Sash Plane and a Slitting Plane, is also a Superior Moulding Plane and will accommodate cutters of almost any shape and size.

No. 55—10 in. Long, Nickel Plated, Rosewood Handles and Fences, Complete with 55 Cutters as Described Below, Weight Each 15 1/4 Lbs. . . . \$28.00

One in a Neat Steel Box, Complete with Cutters.

The Following Cutters are Furnished with Each Plane

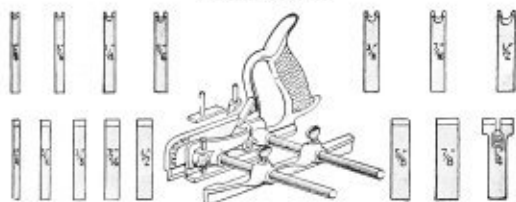
One 1 1/2 in. Sash Tool; one 1/4 in. Match Tool; one 3/8 in. Match Tool; one 1 1/4 in. Filletster; twelve Plow and Dado Tools (1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8 and 1 in.); nine Beading Tools (1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8 and 1 in.); four Fluting Tools (1/4, 3/8, 1/2 and 3/4 in.); four Hollows (1/2, 5/8, 3/4 and 1 in.); four Rounds (1/2, 5/8, 3/4 and 1 in.); two Quarter Hollows (1/2 and 3/4 in.); two Quarter Rounds (5/8 and 3/4 in.); three Reverse Ogees (1/2, 3/4 and 1 in.); two Roman Ogees (5/8 and 3/4 in.); three Grecian Ogees (1/2, 3/4 and 1 in.); two Quarter Rounds with Bead (5/8 and 3/4 in.); three Reeding Tools with two Beads (1/8, 3/16 and 1/4 in.); one 3/4 in. Right Hand and one 3/4 in. Left Hand Chamfers.

The Plane is fitted with spurs for working across the grain and a special cam rest to be located on the front arm when working at a distance from the edge of the board, to keep the fence from sagging, or on the rear arm on certain work to prevent the possibility of the plane rocking. All parts are interchangeable.

Note—Catalog and Prices of Extra and Special Cutters for Nos. 45 and 55 Planes Furnished on Request.

ADJUSTABLE IRON PLANES

STANLEY COMBINED PLOW, BEADING AND MATCHING



Complete with 15 Cutters

A small combination plane for light work. Adapted for Plow, Beading, Matching and Rabbit work. Fitted with spurs, depth gauge, and a fence with a 5 in. adjustment.

Each
No. 50—9 1/4 in. Long, Nickel Plated Stock and Fence, Weight Each 3 1/2 Lbs. \$8.50

The cutters comprise 7 plow and dado bits, one each 1/4, 3/8, 1/2, 5/8 and 3/4 in., 7 beading tools, one each 1/8, 3/16, 1/4, 5/16, 3/8, 1/2 and 5/8 in. and a 1/4 in. tonguing tool.

One in a Box.

STANLEY SKEW CUTTER COMBINATION

Complete with 12 Cutters

Nickel Plated Stock and Fence, Rosewood Handle and Knob.

For Plow, Dado, Filletster, Matching and Rabbit work. Fitted with spurs, a depth gauge and a fence with Rosewood face.

Each
No. 46—10 1/2 in. Long, Weight Each 5 3/4 Lbs. \$10.95

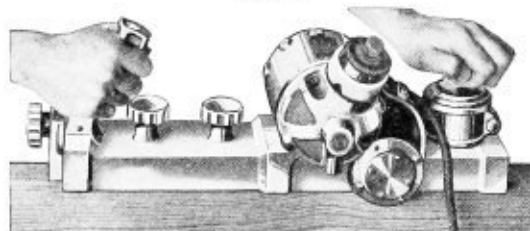
The cutters comprise 9 plow and dado bits, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4 and 1 1/4 in.; a 1 1/2 in. filletster cutter; a 1/4 in. tonguing tool, and a splitting cutter.

Each
No. 47—Without Fence, with 3/8, 1/2, 5/8, 3/4, 1 1/4 in. Dado and Slitting Cutter, Otherwise Same as No. 46, Weight Each 3 3/4 Lbs. \$8.65

One in a Box.

ELECTRIC PLANES

ALTA



Ten Times Faster than a Jack Plane

Aluminum Frame, High Speed Steel Blades, Dust-Proof Bearings, Indicator Dial on Front, Adjusting Screw Shows Depth of Cut, Equipped with Universal Motor, Fits Any Light Socket.

Each
No. 1A—Capacity 2 1/2 in. Wide, Adjustable Cut, 0 to 1/8 in., Weight Each 19 Lbs. \$125.00

SCRAPER PLANES

STANLEY DOUBLE HANDLE VENEER



For Scraping Veneer or for Cabinet Work

The handles are of rosewood with a double grip, and, being placed across the center of the tool, give it a good balance. The blade is adjustable endwise and for angle, and can be firmly locked in position desired.

Each
No. 12—6 1/4 in. Long, 2 3/8 in. Cutter, Weight Each 3 3/4 Lbs. \$4.90
Extra Blades50

One in a Box.

With Rosewood Bottom

Japanned Iron Frame, Rosewood Handles, Endwise Adjustment. The Blades can be locked at any angle.



Each
No. 12 1/2—6 1/4 in. Long, 2 3/8 in. Cutter, Weight Each 4 Lbs. \$0.65
Extra Blades50
Extra Rosewood Bottom45

This wood bottom is especially adapted for use on very fine work, as it renders less liable the possibility of marring or scratching the surface being worked upon. This bottom is detachable, and, when worn, can be readily removed and a new one substituted.

One in a Box.

STANLEY SINGLE HANDLE

Rosewood Handle and Knob



This Plane has the same form as the regular Bailey Plane and is preferred by some users to the double handle Scraper Plane. The blade is adjustable endwise and for angle, and can be firmly locked in position desired.

Each
No. 112—9 in. Long, 2 3/8 in. Cutter, Weight 4 Lbs. \$4.30
Extra Blades50

One in a Box.

FLOOR SCRAPERS

STEARNS

Adjustable cross handle fastened with clamp and wing bolt, allowing user to get against walls and into corners.

6 in. cast iron frame, aluminum finish, 6 in. tempered tool steel blade, 38 1/2 in. natural finish hardwood handle, 5 in. rubber tired wheels, 56 in. length over all.

This machine is used by being drawn towards the user. The blade is firmly clamped in the scraper, the weight of the machine, resting mostly on the blade, prevents vibration or clatter, and thus eliminates wavy effects on floor.



Each
No. 10—Weight 135 Lbs. \$20.00

CABINET SCRAPERS

STANLEY



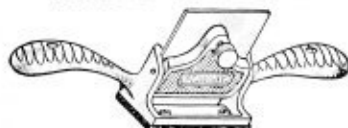
Japanned, Raised Handles, Tool Steel Blade

The blade may be sprung to a slight curve by means of a Thumb Screw giving ease of operation and quickness of cut.

No. 80—11 in. Long, 2 3/4 in. Blade, Weight Each 1 3/4 Lbs. \$1.45
Extra Blades30

One in a Box.

STANLEY WOOD FACE



Nickel Plated, Raised Handles, Tool Steel Blade

This Scraper has a Rosewood Face for use in the finest cabinet work.

No. 81—10 in. Long, 2 1/2 in. Blade, Weight Each 2 1/4 Lbs. \$2.35

Extra Blades30

Extra Rosewood Bottom50

One in a Box.

STANLEY ADJUSTABLE



Handle Can be Fitted to Any Angle

Japanned Iron Frame, Tool Steel Blade, Adjustable Hardwood Handle and Knob, Holds Blades of different forms and widths.

No. 82—14 1/2 in. Long, 3 in. Blade, Weight Each 1 3/4 Lbs. \$1.90

Extra Blades30

One in a Box.

STANLEY SOLID-SET



Particularly Adapted for Floor Work

Single Handle, Non-Adjustable Tool Steel Blade, Sharpened at Both Ends, Japanned Body, Hardwood Handle Securely Fastened.

No. 282—13 in. Long, Blade 3 in. Wide, Weight Each 1 1/2 Lbs. \$1.50

Extra Blades30

One in a Box.

STARRETT UNIVERSAL



Stained Hardwood Handle and Grip, Tool Steel Blade

Has eight sharp cutting edges perfectly ground. Ball Joint Handle, locked or released by a slight turn, can be Locked at any angle.

1 1/4 Lbs. \$1.50

No. 194—7 in. Handle, Blade 3x4 1/2 in., Weight Each30

One in a Box.

HAND SCRAPERS

STANLEY

STANLEY
No 0

No. 0—High Grade English Steel, Special Temper

| | | | | | | |
|-------------------------|--------|----------|-----|-------|-----|----------|
| Size, Inches. | 2x4 | 2 1/2 x5 | 3x4 | 3x5 | 3x6 | 3 1/2 x6 |
| Wt. Dozen, Lbs. | 1 1/2 | 2 | 2 | 2 1/2 | 3 | 3 3/4 |
| Each | \$0.40 | .45 | .40 | .45 | .55 | .55 |

Six in a Box.

DISSTON HAND



High Grade Steel, Tempered and Polished

| | | | | |
|----------------------------|--------|-------|------|----------|
| Size, Inches. | 3x4 | 3x5 | 3x6 | 3 1/2 x6 |
| Weight Dozen, Lbs. | 1 1/2 | 1 3/4 | 2 | 3 |
| Per Dozen | \$1.75 | 2.00 | 2.50 | 3.30 |

Per Dozen

No. 24—Assorted, 2x4 in. to 3x6 in., Weight Per Dozen 2 Lbs. \$2.50

One Dozen in a Box.

DISSTON ACME



No. 120—High Grade Steel, Tempered and Polished Ground Even Gauge, Dressed on Edges, Straw Color Finish.

| | | |
|-------------------------|--------|------|
| Size, Inches | 3x5 | 3x6 |
| Gauge, Inches | 16 | 16 |
| Per Dozen | \$5.50 | 5.50 |

One-Sixth Dozen in a Box.

TOOTHING CUTTERS

STANLEY
No 28

High Grade English Steel, Specially Tempered

For use in Nos. 12, 12 1/2 and 112 Scraper Planes. They will do excellent work in scraping off old paint or glue and in roughing up the surface of wood preparatory to veneering.

| | | | |
|-------------------------|--------|-----|-----|
| Nos. | 28A | 28B | 28C |
| Teeth Per Inch. | 22 | 28 | 32 |
| Each | \$0.85 | .85 | .85 |

Six in a Box.

CABINET BURNISHERS



For turning Edges of Cabinet Scrapers, Polished and Hardened Oval Steel Blade, Varnished Hardwood Handle, Brass Ferrule.

No. 1—4 1/2 in. Blade, Weight Per Dozen 3 Lbs. \$6.00

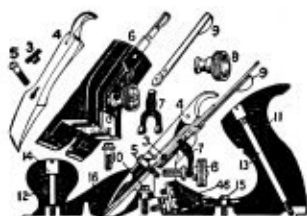
One Dozen in a Box.

EXTRA PARTS FOR STANLEY PLANES

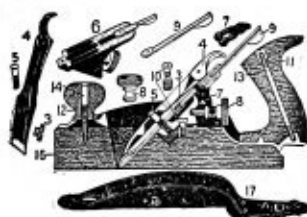
BEDROCK PLANES

[illegible]

BAILEY IRON PLANES

[illegible]

BAILEY WOOD PLANES

[illegible]

BAILEY AND STANLEY BLOCK PLANES



| No. | Name of Part | No. of Plane | 91/4 93/4 | 15 15 1/2 | 16 17 | 18 19 | 60 60 1/2 | 62 | 61 63 | 65 | 65 1/2 |
|-----|-------------------------|--------------|---------------------|--------------|----------|----------|--------------|------|----------|------|--------|
| 1 | Single Plane Iron | | For Prices see page | | | | | | | | |
| 4 | Lever Cap | | .20 | .20 | .30 | .40 | .30 | .30 | .30 | .40 | .20 |
| 5 | " " Screw | | .10 | .10 | .10 | .10 | .10 | .10 | .10 | .10 | .10 |
| 6 | Frog Complete | | | | | | .20 | .20 | .20 | .20 | |
| 8 | Adjusting Lever | | .10 | .10 | .10 | .10 | | | | | |
| 9 | Adjusting Nut | | .20 | .20 | .20 | .20 | .20 | .20 | .20 | .20 | .20 |
| 10 | Lateral Adjusting Lever | | .20 | .20 | .20 | .20 | | | | | |
| 11 | Plane Handle | | .50 | .50 | | | | .80 | | | |
| 16 | Plane Bottom | | 1.40 | 1.50 | 1.50 | 1.50 | 1.20 | 3.50 | 1.00 | 1.50 | 1.50 |
| 21 | Eccentric Plane | | .20 | .20 | .20 | .20 | .20 | .20 | .20 | .20 | .20 |
| 22 | Finger Rest Knob | | .20 | .20 | .20 | .20 | .20 | .30 | .20 | .20 | .20 |

STANLEY BLOCK PLANES

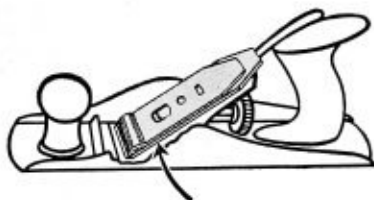
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READY EDGE PLANE BLADES

STANLEY

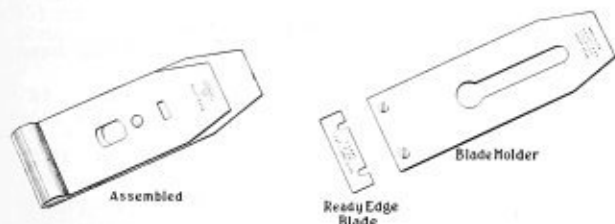
These Blades assure a sharp cutting edge. Whenever an old blade becomes dull a new one can be quickly substituted.

Stanley Ready Edge Blades are furnished with Special Double Plane Irons in the 1 1/4, 2 and 2 3/4 in. sizes for use on the regular Stanley Bailey, Bed Rock and Aluminum Planes.



Ready Edge Blade and Double Iron in Position.

Stanley Ready Edge Blades are attached by screws to specially constructed blade holders. A plane iron cap of special design fits over this and is held in place by a cap screw. Thus assembled it can be applied for use in the Regular Stanley Bailey, Bed Rock and Aluminum Planes.



Assembled

Ready Edge Blade

Blade Holder



Display Carton

Size 6 1/2 in. Long, 7 in. Wide. Contains 6 Individual Boxes Four of 2 in. Size, One Each 1 1/4 in. and 2 3/4 in. Sizes.



Individual Box (2 in. Size). 6 in. Long, 2 1/8 in. Wide.

Contains 1 Double Iron Blade and 5 Small Cutters.



Small Package of 5 Blades Contained in Each Ready Edge Double Iron Box.

Each

Display Carton—Containing 6 Blades and 6 Sets of Ready Edges \$12.00

Per Set

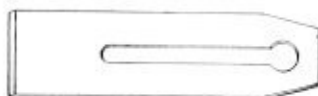
Individual Boxes—Containing 1 Blade and 1 Set of Ready Edges, Furnished 1 1/4, 2 or 2 3/4 in. Wide for Use on Regular Stanley or Bed Rock Planes. \$2.00

Ready Edge Blades—5 Edges for Use with Patent Blade Holder, Furnished 1 1/4, 2 or 2 3/4 in. Wide. .85

These Ready Edge Plane Bits save time and money for the mechanic. A sharp edge is always ready for use.

PLANE IRONS

BAILEY SINGLE



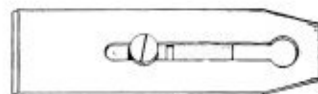
For "Bed Rock" and "Bailey" Iron and Wood Planes

| | | | | |
|---------------------|--------|-------|-------|-------|
| Width, Inches | 1 1/4 | 1 3/4 | 1 3/4 | 2 |
| Each | \$0.45 | .55 | .60 | .65 |
| Width, Inches | 2 1/4 | 2 3/4 | 2 3/4 | 2 3/4 |
| Each | \$0.70 | .75 | .80 | .80 |

Numbers of Planes Each Plane Iron Will Fit

| | |
|--|--|
| 1 1/4 in. for Plane No. 1. | |
| 1 3/4 in. for Plane Nos. 2, 2C, 602, 602C. | |
| 1 3/4 in. for Plane Nos. 3, 3C, 5 1/4, 5 1/4 C, 20, 22, 25, 113, 603, 603C. | |
| 2 in. for Plane Nos. 4, 4C, 5, 5C, 9, 24, 26, 35, 604, 604C, 605, 605C. | |
| 2 1/4 in. for Plane Nos. 10, 10 1/4, 10 1/2. | |
| 2 1/4 in. for Plane Nos. 5 1/2, 5 1/2 C, 27 1/2, 605 1/2, 605 1/2 C. | |
| 2 3/4 in. for Plane Nos. 4 1/2, 4 1/2 C, 6, 6C, 7, 7C, 11, 28, 31, 36, 604 1/2, 604 1/2 C, 606, 606C, 607, 607C. | |
| 2 3/4 in. for Plane Nos. 8, 8C, 32, 37, 608, 608C. | |

BAILEY DOUBLE



For "Bed Rock" and "Bailey" Iron and Wood Planes

| | | | | | | | | |
|--------------------|--------|-------|-------|------|-------|-------|-------|-------|
| Width, In. | 1 1/4 | 1 3/4 | 1 3/4 | 2 | 2 1/4 | 2 1/4 | 2 3/4 | 2 3/4 |
| Each | \$0.80 | .90 | 1.00 | 1.10 | 1.15 | 1.20 | 1.25 | 1.30 |

All Above, Six in a Box.

STANLEY AND BAILEY BLOCK



ADJUSTABLE



NON-ADJUSTABLE

| | | | | | | | |
|------------------------|--------|-------|-------|--------|-------|--------|-------|
| For Plane Nos. | 100 | 101 | 102 | 103 | 110 | 120 | 220 |
| Width, Inches. | 1 | 1 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 |
| Each | \$0.12 | .12 | .20 | .20 | .30 | .45 | .45 |
| For Plane Nos. | 130 | 131 | 140 | 9 1/2 | 15 | 16 | 17 |
| Width, Inches. | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 |
| Each | \$0.20 | .20 | .50 | .45 | .45 | .45 | .45 |
| For Plane Nos. | 18 | 19 | 60 | 60 1/2 | 65 | 65 1/2 | |
| Width, Inches. | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | |
| Each | \$0.45 | .45 | .45 | .45 | .45 | .45 | |

CUT PLANE IRONS

BUCK BROS. SINGLE



No. 59—Forged from Highest Grade Cast Steel

| | | | | | | | |
|--------------------|--------|------|-------|-------|-------|-------|-------|
| Width, In. | 1 1/4 | 2 | 2 1/4 | 2 1/4 | 2 3/4 | 2 3/4 | 2 3/4 |
| Per Dozen .. | \$6.65 | 7.65 | 8.00 | 9.00 | 10.00 | 10.60 | 12.00 |

BUCK BROS. DOUBLE

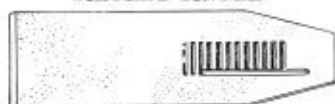


No. 60—Forged from Highest Grade Cast Steel

| | | | | | | | |
|--------------------|---------|-------|-------|-------|-------|-------|-------|
| Width, In. | 1 1/4 | 2 | 2 1/4 | 2 1/4 | 2 3/4 | 2 3/4 | 2 3/4 |
| Per Dozen .. | \$12.60 | 14.00 | 14.60 | 16.00 | 17.60 | 18.70 | 20.50 |

PLANE IRONS

SIEGLEY SINGLE



Cast Steel, Polished, for Siegley Iron Planes
 Width, Inches..... 2 2 1/4 2 3/4 2 1/2
 Each \$1.00 1.10 1.20 1.25

Six in a Box.

BUCK BROTHERS TOOTH

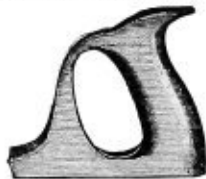


Forged from Highest Grade Cast Steel
 Made in three Cuts, Fine, Medium and Coarse.
 Width, Inches 2 2 1/4
 Per Dozen \$12.00 13.50
 Note—Always state Cut required when ordering.

COMMON WOOD PLANE HANDLES



No. 195.



No. 197. Per Dozen

No. 195—Jack \$1.90
 No. 197—Fore 3.36

One Dozen in a Box.

JOINTER GAUGES

MILLERS FALLS



For Wood or Iron Planes

Black Enameled Iron, Flat Surface Nickel Plated.

No. 88—9 in. Long, Weight Each 2 1/4 Lbs. \$2.30

Adjustable to any bevel. Can be attached to any wood or iron Jack, Fore or Jointer Plane, and enables the operator to accurately plane bevels of any desired angle or to make even joints without using a Try Square or Bevel.

One in a Box.

STANLEY

Enables the workman to plane bevels of any angle between 30 and 90 degrees, or to square up the edges of boards with extreme accuracy. A Hole is bored in each end of the Gauge so that a Wood Face of any desired size may be attached, thus providing a bearing surface longer or wider than the face of the gauge itself.

No. 386—For Iron Planes, Iron and Steel Construction, Nickel Plated, Weight Each 2 1/4 Lbs. \$2.35
 One in a Box.

CHISEL GRINDERS

STANLEY

For Grinding Cutters and Chisels

Tools may be ground to any desired bevel. The tool to be sharpened is rigidly held in the grinder by thumb screws.

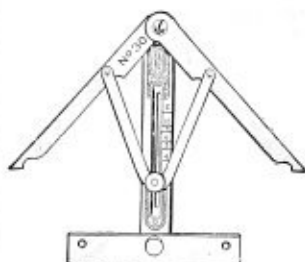
No. 200 — All Metal, Nickel Plated, Weight Each 1 1/2 Lbs. \$1.60

One in a Box.



ANGLE DIVIDERS

STANLEY



Iron Body, Pressed Steel Arms, Full Nickel Plated

No. 30—Length Over All 7 3/4 in., Length of Arms 6 in., Length of T Head 4 in., Weight Each 1 1/2 Lbs. \$2.20

Designed for bisecting or dividing any angle, and for fitting mouldings or other woodwork into odd angles.

One in a Box.

SLIDING T BEVELS

STANLEY WOOD HANDLE



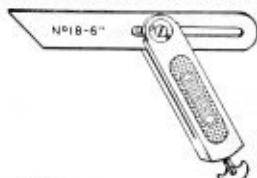
No. 25—Rosewood Handle

Blued Steel Blade, Brass Tipped Handle, Flush Brass Lever Adjustment.

| | 6 | 8 | 10 | 12 | 14 |
|-----------------------|--------|-------|-------|-------|--------|
| Length Blade, In.... | 6 | 8 | 10 | 12 | 14 |
| Length Handle, In.... | 4 3/4 | 5 3/4 | 7 3/4 | 8 1/4 | 10 1/4 |
| Weight Dozen, Lbs.... | 2 1/2 | 3 1/2 | 4 1/2 | 5 3/4 | 7 |
| Per Dozen | \$7.20 | 8.40 | 8.40 | 9.60 | 10.20 |

One-half Dozen in a Box.

STANLEY METAL HANDLE



No. 18—Nickel Plated Handle and Blade

Thumb Screw Adjustment, Prevents Slipping.

| | 6 | 8 | 10 |
|--------------------------|---------|-------|-------|
| Length of Blade, Inches. | 6 | 8 | 10 |
| Length of Handle, Inches | 4 3/4 | 5 3/4 | 6 3/4 |
| Weight Per Dozen, Lbs. | 4 3/4 | 6 3/4 | 7 |
| Per Dozen | \$10.80 | 13.80 | 15.00 |

One-half Dozen in a Box.

STAIR GAUGE FIXTURES

STARRETT



For Use with Carpenters Steel Squares

A pair of these fixtures can be readily clamped to a carpenter's steel square to form a gauge for various uses. Sketch A shows the gauge as applied for laying out a stair stringer; Sketch B, laying off hexagon angles; Sketch C as used as a Center Gauge or in quartering a circle. These fixtures are light, neat, efficient and low priced.

No. 111—Fixtures Per Pair \$0.90
 One Pair in a Box.

TRY SQUARES

STANLEY ROSEWOOD HANDLE



No. 20—Blued Steel Blade,
Rosewood Handle, Brass
Face Plate

Edges of Blade Accurately Machined. Square Inside and Out. Graduated in 8ths of an inch.

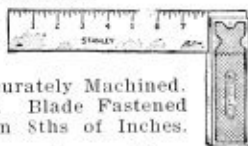
| | | | | |
|---------------------------|--------|-------|-------|-------|
| Length Blade, Inches.... | 4 1/2 | 6 | 7 1/2 | 9 |
| Length Handle, Inches.... | 3 1/2 | 4 5/8 | 5 3/8 | 6 |
| Weight Each, Oz..... | 4 1/8 | 5 1/8 | 7 3/8 | 9 3/8 |
| Per Dozen | \$6.60 | 8.40 | 9.00 | 12.00 |

| | | | | |
|---------------------------|---------|--------|-------|--------|
| Length Blade, Inches.... | 10 | 12 | 15 | 18 |
| Length Handle, Inches.... | 6 | 7 | 8 1/4 | 9 3/4 |
| Weight Each, Oz..... | 10 | 12 1/8 | 18 | 20 1/2 |
| Per Dozen | \$12.60 | 15.60 | 19.80 | 27.00 |

One-half Dozen in a Box.

STANLEY IRON HANDLE

No. 12—Nickel Plated, Steel Blade,
Square Inside and Out



Edges of Handle and Blade Accurately Machined. Slot for Blade Accurately Sawed. Blade Fastened with Three Rivets. Graduated in 8ths of an inch.

| | | | | |
|---------------------------|--------|-------|-------|--------|
| Length Blade, Inches.... | 6 | 8 | 10 | 12 |
| Length Handle, Inches.... | 4 3/8 | 5 1/8 | 6 3/8 | 8 |
| Weight Each, Oz..... | 6 | 11 | 15 | 21 1/8 |
| Per Dozen | \$9.00 | 10.20 | 13.20 | 15.60 |

One-half Dozen in a Box.

TRY AND MITRE SQUARES

STANLEY ROSEWOOD HANDLE



No. 2—Blued Steel Blade, Rosewood
Handle, Brass Face Plate

Square Inside and Out, Graduated
in 8ths of an inch.

| | | | |
|---------------------------|--------|-------|-------|
| Length Blade, Inches.... | 6 | 7 1/2 | 9 |
| Length Handle, Inches.... | 4 | 5 | 5 3/4 |
| Weight Each, Oz..... | 4 | 7 3/8 | 10 |
| Per Dozen | \$9.60 | 11.40 | 13.80 |

One-half Dozen in a Box.

STANLEY IRON HANDLE

No. 1—Nickel Plated, Steel Blade,
Square Inside and Out



Edges of Handle and Blade Accurately Machined, Graduated to 8ths of an inch.

| | | |
|---------------------------|--------|-------|
| Length Blade, Inches.... | 6 | 8 |
| Length Handle, Inches.... | 4 | 5 |
| Weight Each, Oz..... | 7 1/8 | 8 1/2 |
| Per Dozen | \$9.60 | 11.40 |

One-half Dozen in a Box.

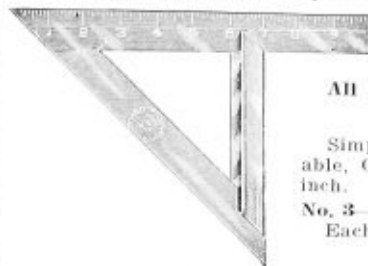
FOX



All Steel, Dull Nickel Finish
Per Dozen

No. 6—6 in. Blade, Graduated 8ths, 4 1/4 x 1 3/8 in. Head, Square Inside and Out, Weight Per Dozen 5 Lbs. \$2.50

One-half Dozen in a Box.

MITRE TRY SQUARES
FOX COMBINED SQUARE AND MITRE

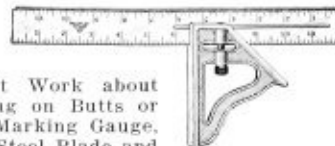
All Steel, Nickel Plated,
Electric Welded

Simple, Accurate and Durable, Graduated in 8ths of an inch.

Each
No. 3—10 in. Long, Weight
Each 7 1/2 Oz. \$1.20
Six in a Box.

STANLEY ADJUSTABLE

No. 21—For Carpenters



Useful for doing Short Work about Windows, Doors, in putting on Butts or Locks, or as a Depth or Marking Gauge. High Grade Nickel Plated Steel Blade and Cast Iron Head, Blued Adjusting Screws, Blade Graduated in 8ths, 16ths and 32nds of an inch, Square Inside and Out.

| | | | |
|---------------------------|--------|-------|-------|
| Length Blade, Inches..... | 6 | 9 | 12 |
| Length Head, Inches..... | 2 5/8 | 3 1/8 | 3 5/8 |
| Weight Each, Oz..... | 6 | 8 | 12 |
| Each | \$1.00 | 1.20 | 1.40 |

One in a Box.

LUFKIN UNIVERSAL

No. 65L—For Carpenters



Marked on Both Sides, one Edge 8ths, other Edge 16ths inches.

This Square consists of accurately graduated Steel Blade with Figures and Lines to show distinct, fitted with movable head which can be secured at any point, combining in one tool a Try and Mitre Square, a Level, a Plumb, a Marking Gauge, Height and Depth Gauge and Separate Rule.

| | | |
|----------------------|--------|------|
| Length, Inches | 9 | 12 |
| Weight Each, Oz..... | 12 | 18 |
| Each | \$1.35 | 1.50 |

One in a Box.

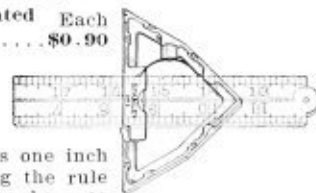
3-ANGLE RULE TOOL

STANLEY

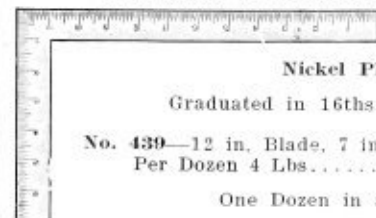
All Metal, Nickel Plated Each
No. 2—Weight Each 3 Oz. \$0.90

A light, handy little Pocket Tool for carpenters and mechanics. Can be easily and quickly attached to any two foot rule that is one inch in width, by simply slipping the rule between the spring and the boss as shown in cut. In this combination it may be used as a Plumb, a Level, a Square, a T Square, a Mitre Square, a 30 Degree Square, a Depth Gauge or a Marking Gauge.

One in a Box.



HANDY STEEL SQUARES



Nickel Plated

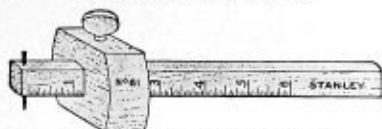
Graduated in 16ths on both sides.

Per Dozen
No. 439—12 in. Blade, 7 in. Tongue, Weight
Per Dozen 4 Lbs. \$3.00

One Dozen in a Package.

GAUGES

STANLEY MARKING



Fixed Steel Marking Point

Square Beechwood Head, Oval Beechwood Bar, Boxwood Thumb Screw.

No. 61—8 1/2 in. Long, Bar Marked 16ths, Weight Per Dozen 2 3/4 Lbs. \$2.40
One Dozen in a Box.



Adjustable Steel Marking Point

Square Beechwood Head, Oval Beechwood Bar, Boxwood Thumb Screw.

No. 62—8 1/2 in. Long, Bar Marked 16ths, Weight Per Dozen 2 3/4 Lbs. \$4.20
One Dozen in a Box.



Brass Thumb Screw and Shoe

Round Brass Plated Boxwood Head, Oval Beechwood Bar, Highly Polished, Adjustable Steel Marking Point.

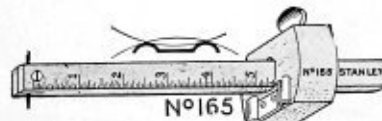
No. 64 1/2—8 1/2 in. Long, Bar Marked 16ths, Weight Per Dozen 3 3/4 Lbs. \$7.20
One-half Dozen in a Box.



Brass Thumb Screw and Shoe

Square Brass Plated Boxwood Head, Oval Beechwood Bar, Highly Polished, Adjustable Steel Marking Point.

No. 65—8 1/4 in. Long, Bar Marked 16ths, Weight Per Dozen 3 3/4 Lbs. \$10.80
One-half Dozen in a Box.



With Circular Face Plate

Square Brass Plated, Boxwood Head, Oval Beechwood Bar, Highly Polished, Adjustable Steel Marking Point.

No. 165—8 1/4 in. Long, Bar Marked 16ths, Weight Per Dozen 3 3/4 Lbs. \$12.00

The brass plate with two convex faces attached to one side of head permits a gauge line being run with steadiness and accuracy around curves of any degree, either concave or convex. The head is reversible and flat side used for ordinary work.

One-half Dozen in a Box.

GAUGES

STANLEY MORTISE AND MARKING



Plated Head, Brass Thumb Screw

Highly Polished, Double Oval Beechwood Bars, Oval Brass Plated Beechwood Head, Brass Shoe, Fixed Steel Marking Points.

No. 71—8 1/2 in. Long, Bar Marked 16ths, Weight Per Dozen 4 1/4 Lbs. \$11.40

Has two independent bars working in the same head. One pin is affixed to each bar. One side of the mortise is marked and the gauge turned over for the other mark.

One-half Dozen in a Box.



Plain Head, Boxwood Screw

Beechwood Head, Oval Beechwood Bars, Fixed Steel Marking Points.

No. 72—8 1/2 in. Long, Bar Marked 16ths, Weight Per Dozen 4 Lbs. \$7.20
One-half Dozen in a Box.

STANLEY SLIDE MORTISE AND MARKING



Highly Polished Rosewood, Brass Slide

Oval Brass Plated Rosewood Head, Brass Thumb Screws and Shoe, Fixed Steel Marking Points.

No. 77—6 3/4 in. Long, Bar Marked 16ths, Weight Per Dozen 5 Lbs. \$19.80

Has a brass slide working in the wood bar. One of the marking points is affixed to one end of the slide, the other to the end of the bar itself. These points mark both sides of the mortise at the same time.

One-half Dozen in a Box.

STANLEY METAL BAR MARKING



Pin Point and Roller Cutter

Nickel Plated Steel Bar, with Adjustable Point, Double Faced Brass Plated Rosewood Head, Brass Screw.

No. 197—6 1/2 in. Long, Bar Marked 16ths, Weight Per Dozen 6 Lbs. \$16.80
One in a Box.

STANLEY METAL BAR MORTISE AND MARKING



Pin Point and Roller Cutter

Nickel Plated Steel Bars, with Adjustable Points, Double Faced, Brass Plated Rosewood Head, Brass Screws.

No. 198—6 1/2 in. Long, Bars Marked 16ths, Weight Per Dozen 7 1/2 Lbs. \$24.00
One in a Box.

GAUGES

STANLEY METAL MARKING



With Adjustable Pin Point

Nickel Plated Steel Bar, Nickel Plated Iron Head.

- No. 90—6½ in. Long, Bar Marked 16ths, Weight Each 4 Oz. \$0.70
One in a Box.



With Adjustable Point and Roller

Nickel Plated Steel Bar, Nickel Plated Iron Head.

- No. 97—6½ in. Long, Bar Marked 16ths, Weight Each 8 Oz. \$1.10
One in a Box.

STANLEY METAL MORTISE AND MARKING



With Adjustable Pin Points

Nickel Plated Steel Bars, Nickel Plated Iron Heads.

- No. 91—6½ in. Long, Bar Marked 16ths, Weight Each 8 Oz. \$1.25
One in a Box.



With Adjustable Pin Points and Roller

Nickel Plated Steel Bars, Nickel Plated Iron Heads.

- No. 98—6½ in. Long, Bar Marked 16ths, Weight Each 10 Oz. \$1.65
Gauges equipped with the additional roller cutters are particularly adapted for marking cross grain lumber.
One in a Box.

PANEL GAUGES

STANLEY



Adjustable Point

Beechwood, Polished, Boxwood Screw.

- No. 85—17½ in. Long, Weight Each 8 Oz. \$0.45
Twelve in a Box.



Adjustable Point

Rosewood, Polished, Brass Thumb Screw and Face Plate.

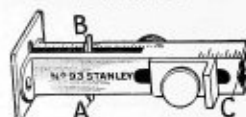
- No. 85½—20½ in. Long, Weight Each 15 Oz. \$3.35

These Gauges are used for marking door panels and such wide work where an extra long bar is needed. They have extra wide head that is rabbeted to prevent slipping.

Three in a Box.

BUTT GAUGES

STANLEY

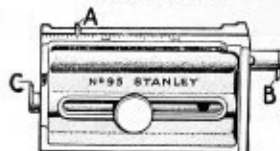


For Rabbeted Jamb or Nailed Strikes

- No. 93—2½ in. Long, Nickel Plated Steel Head, Brass Slide, Graduated 16ths for 2 inches, Weight Each ¼ Lb. \$1.55

Has two cutters on the same end of a sliding bar, designed so that at one setting one cutter will mark the location of butt on door, and the other the location of the butt on the casing, allowing the necessary clearance. A gauge at the opposite end of the tool can be set for the thickness of butt both on casing and door.

One in a Box.

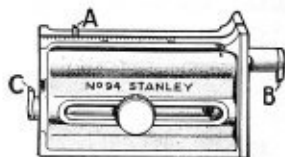


For Rabbeted Jamb

- No. 95—3 in. Long, Nickel Plated Iron Body, Steel Bars, Graduated 16ths for 2 inches, Weight Each ½ Lb. \$1.60

Has one bar with two steel cutters fixed upon it. When the cutter at the outer end of this bar is set for gauging on the edge of the door, the cutter at the inner end of the bar is already set for gauging from the back of the jamb. The other bar has a steel cutter to accurately gauge for the thickness of the butt.

One in a Box.



For Rabbeted Jamb or Nailed Strikes

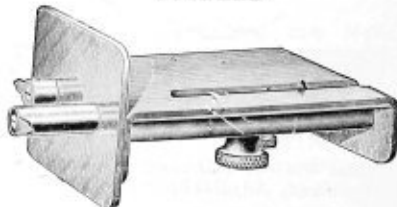
Nickel Plated Iron Body, Steel Bars.

- No. 94—3 in. Long, Graduated 16ths for 2 inches, Weight Each 10 Oz. \$1.75

For rabbeted jamb. Cutter A marks from the jamb in the rabbet. Cutter B from the edge of the door engaged in closing. Cutter C the thickness of butt for nailed strikes. Cutter B when reversed marks for the butt on both door and jamb. Cutter C the thickness of the butt.

One in a Box.

GOODSELL



Steel, Nickel Plated

This Tool is designed especially for door hanging and mortise work. It is provided with three hardened double edge spurs, the one on the back of the double end bar being adjustable for the regulation clearance.

- No. 227—3½ in. Long, Weight Each 8 Oz. \$1.75
One in a Box.

WOOD LEVELS

STANLEY



No. 102—Polished Hardwood Stock, Brass Top Plate
Plain Side Views, Proved Glasses, Handy Finger Grips,
2 3/4 x 1 1/4 in. Stock.

| | | | | |
|-------------------|--------|-----|-----|-------|
| Length, Inches | 10 | 12 | 14 | 16 |
| Weight Each, Lbs. | 3/4 | 7/8 | 1 | 1 1/4 |
| Each | \$0.80 | .80 | .90 | .90 |

No. 102A—Assorted 10 to 16 in., Weight Per Dozen
11 Lbs. Per Dozen, \$10.50
One Dozen in a Box.

PLUMBS AND LEVELS

STANLEY



No. 104—Polished Hardwood Stock, Brass Top Plate
Plain Side Views, Proved Glasses, Handy Finger Grips,
2 3/4 x 1 1/4 in. Stock.

| | | | | |
|-------------------|--------|------|------|-------|
| Length, Inches | 12 | 14 | 16 | 18 |
| Weight Each, Lbs. | 3/4 | 7/8 | 1 | 1 1/4 |
| Each | \$1.20 | 1.20 | 1.25 | 1.25 |

No. 104A—Assorted 12 to 18 in., Weight Per Dozen
12 Lbs. Per Dozen, \$15.00
One Dozen in a Box.



No. 00—Polished Hardwood Stock, Brass Top Plate
Plain Side Views, Proved Glasses, Handy Finger Grips,
3 1/2 x 1 1/4 in. Stock.

| | | | |
|-------------------|--------|------|-------|
| Length, Inches | 18 | 20 | 22 |
| Weight Each, Lbs. | 1 1/4 | 2 | 2 1/4 |
| Each | \$1.60 | 1.60 | 1.65 |

No. 00A—Assorted 18 to 22 in., Weight Per Dozen
16 1/2 Lbs. Per Dozen, \$19.50
One-half Dozen in a Box.



No. 0—Polished Hardwood Stock, Brass Top Plate
Plain Side Views, Proved Glasses, Handy Finger Grips,
3 1/2 x 1 1/4 in. Stock.

| | | | | |
|-------------------|--------|-------|-------|------|
| Length, Inches | 24 | 26 | 28 | 30 |
| Weight Each, Lbs. | 2 1/4 | 2 1/2 | 2 3/4 | 3 |
| Each | \$1.75 | 1.75 | 2.00 | 2.00 |

No. 0A—Assorted 24 to 30 in., Weight Per Dozen
40 Lbs. Per Dozen, \$23.50
One-half Dozen in a Box.

STANLEY ADJUSTABLE



No. 3—Polished Hardwood Stock, Brass Tips and Top Plate
Plain Side Views, Proved Glasses, Handy Finger Grips,
3 1/2 x 1 1/4 in. Stock.

| | | | | |
|-------------------|--------|-------|------|-------|
| Length, Inches | 24 | 26 | 28 | 30 |
| Weight Each, Lbs. | 2 1/4 | 2 1/2 | 3 | 3 1/4 |
| Each | \$2.80 | 2.80 | 2.90 | 2.90 |

No. 3A—Assorted 24 to 30 in., Weight Per Dozen
44 Lbs. Per Dozen, \$35.00
One-half Dozen in a Box.

Adjustable Levels have the level glass set in plaster in a metal case. This case is fixed at one end by a screw which holds the plate firmly against a collar. The other end of the level is held against the spiral spring by a screw which permits its being adjusted. The top plate is entirely independent of the setting thus preventing tampering with adjustment.

PLUMBS AND LEVELS

STANLEY ADJUSTABLE



No. 5—Three-Ply Polished Hardwood Stock, Brass Top Plate

Brass Tips and Lips, Plain Side Views, Proved Glasses,
Handy Finger Grips, 3 1/2 x 1 1/4 in. Stock.

| | | | | |
|-------------------|--------|------|-------|-------|
| Length, Inches | 24 | 26 | 28 | 30 |
| Weight Each, Lbs. | 2 3/4 | 3 | 3 1/4 | 3 1/2 |
| Each | \$3.75 | 3.75 | 4.00 | 4.00 |

No. 5A—Assorted 24 to 30 in., Weight Per Dozen
44 Lbs. Per Dozen, \$46.50
One-half Dozen in a Box.

STANLEY DUPLEX ADJUSTABLE



No. 30—Polished Hardwood Stock, Brass Tips, Top Plate and Discs

Plain Side Views, Proved Glasses, Handy Finger Grips,
3 1/2 x 1 1/4 in. Stock.

| | | | | |
|-------------------|--------|------|-------|-------|
| Length, Inches | 24 | 26 | 28 | 30 |
| Weight Each, Lbs. | 2 3/4 | 3 | 3 1/4 | 3 1/2 |
| Each | \$3.75 | 3.75 | 4.00 | 4.00 |

No. 30A—Assorted 24 to 30 in., Weight Per Dozen
48 Lbs. Per Dozen, \$46.50

These Levels have the ordinary form of leveling glass set in the top surface of the stock, for use where observation sidewise may be found convenient, an additional leveling glass is set in the side, at the opposite end of the plumb. Both glasses are protected by brass discs, can be seen from either side.

One-half Dozen in a Box.

STANLEY BRASS BOUND ADJUSTABLE



No. 93—Polished Selected Mahogany Stock, Brass Top Plate

Plain Side Views, Heavy Brass Bound Edges, Solid Brass Tips on Ends, Proved Glasses, Handy Finger Grips, 3 1/2 x 1 1/4 in. Stock.

| | | | | |
|-------------------|--------|------|-------|-------|
| Length, Inches | 24 | 26 | 28 | 30 |
| Weight Each, Lbs. | 2 3/4 | 3 | 3 1/4 | 3 1/2 |
| Each | \$1.60 | 4.80 | 5.00 | 5.25 |

One in a Box.

STANLEY BRASS BOUND SMALL STOCK ADJUSTABLE



No. 1093—Polished Selected Mahogany Stock, Brass Top Plate

Plain Side Views, Heavy Brass Bound Edges, Solid Brass Tips on Ends, Proved Glasses, Handy Finger Grip, 3 1/2 x 1 1/4 in. Stock.

| | | |
|-------------------|--------|-------|
| Length, Inches | 12 | 18 |
| Weight Each, Lbs. | 1 1/4 | 1 3/4 |
| Each | \$2.70 | 3.30 |

One in a Box.

STANLEY IMPROVED



No. 257—Extra Quality Light Wood

Will Level Either Side Up. Two Single Plumbs, One Double Level, Proved Glasses, Handy Finger Grips, 2 3/4 x 1 1/4 in. Stock.

| | | | | |
|-------------------|--------|-------|-------|-------|
| Length, Inches | 24 | 26 | 28 | 30 |
| Weight Each, Lbs. | 1 1/4 | 1 1/4 | 1 3/4 | 1 3/4 |
| Each | \$2.70 | 2.70 | 2.80 | 2.80 |

One in a Box.

PLUMBS AND LEVELS

STANLEY IMPROVED



No. 260—Polished Cherry Stock

Two Plumbs and Two Level Glasses, Protected with Heavy Glass Covers, Adjustable Proved Glasses, Handy Finger Grips, Will Level Either Side Up, $2\frac{3}{4} \times 1\frac{1}{8}$ in. Stock.

| | | |
|-------------------|-----------------|-----------------|
| Length, Inches | 24 | 28 |
| Weight Each, Lbs. | 1 $\frac{3}{4}$ | 2 $\frac{1}{4}$ |
| Each | \$4.00 | 4.10 |

No. 261—With Aluminum Tips

| | | |
|-------------------|-----------------|-----------------|
| Length, Inches | 24 | 28 |
| Weight Each, Lbs. | 1 $\frac{3}{4}$ | 2 $\frac{3}{4}$ |
| Each | \$4.35 | 4.50 |

No. 262—Aluminum Bound and Aluminum Tips

| | | |
|-------------------|--------|-----------------|
| Length, Inches | 24 | 28 |
| Weight Each, Lbs. | 2 | 2 $\frac{3}{4}$ |
| Each | \$6.00 | 6.25 |

The glasses of these levels are adjustable, and can be removed for adjusting or replacing.
One in a Box.

ALUMINUM PLUMBS AND LEVELS

STANLEY ADJUSTABLE



No. 237—Light in Weight, Will Not Rust or Warp

Polished Aluminum Frame, Milled and Ground Top and Bottom, Nickel Plated Trimmings, Proved Glasses, Two Plumb and One Level Glass Set in Metal Cases with Revolving Protecting Cover.

| | | | |
|-------------------|--------|-----------------|-----------------|
| Length, Inches | 12 | 18 | 24 |
| Weight Each, Lbs. | 1 | 1 $\frac{1}{4}$ | 1 $\frac{3}{4}$ |
| Each | \$4.00 | 5.00 | 6.00 |

One in a Box.

STANLEY IMPROVED



No. 232—With Four Plumbs and Two Levels

Aluminum Truss Frame, Proved Glasses Protected by a Heavy Glass Cover, Will Plumb or Level Either Side Up.

| | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Length, Inches | 24 | 26 | 28 | 30 |
| Weight Each, Lbs. | 2 $\frac{3}{8}$ | 2 $\frac{3}{4}$ | 2 $\frac{7}{8}$ | 2 $\frac{3}{4}$ |
| Each | \$6.00 | 6.25 | 6.75 | 7.00 |

One in a Box.

SANDS ADJUSTABLE



With Two Plumbs and Two Levels

High Grade Aluminum, Strong and Light, Protected Glasses, Will Plumb or Level Either Side Up.

| | |
|--|--------|
| No. 18—18 in. Long, 2 $\frac{1}{4}$ in. Wide, 1 $\frac{1}{8}$ in. Thick. | |
| Weight Each 1 $\frac{3}{4}$ Lbs. | \$5.80 |
| One in a Box. | |



With Four Plumbs and Two Levels

High Grade Aluminum, Strong and Light, Protected Glasses, Will Plumb or Level Either Side Up.

| | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Nos. | 24 | 26 | 28 | 30 |
| Length, Inches | 24 | 26 | 28 | 30 |
| Width, Inches | 2 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | 2 $\frac{1}{4}$ | 2 $\frac{3}{4}$ |
| Thickness, Inches | 1 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{8}$ |
| Weight Each, Lbs. | 2 | 2 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 3 |
| Each | \$6.40 | 6.70 | 7.00 | 7.50 |

One in a Box.

MASONS PLUMBS AND LEVELS

SAND



Will Plumb or Level Either Side Up

Four Plumbs, 2 Levels, 2 Hand Holes, Protected Glasses, Each

| | |
|---|--------|
| No. 3-A—48 in. Long, 2 $\frac{1}{2}$ in. Wide and 1 $\frac{1}{4}$ in. Thick, Weight Each 2 $\frac{1}{2}$ Lbs. | \$5.00 |
| One in a Box. | |

SAND BRASS BOUND MASONS



Will Plumb or Level Either Side Up

Four Plumbs, 2 Levels, 2 Hand Holes, Protected Glasses, Brass Lined and Brass End Plates. Each

| | |
|--|--------|
| No. 7-A—48 in. Long, 2 $\frac{1}{2}$ in. Wide, 1 $\frac{1}{4}$ in. Thick, Weight Each 3 $\frac{1}{2}$ Lbs. | \$7.50 |
| One in a Box. | |

PEERLESS



No. 7—Seven Piece Mahogany and White Pine

Glued Together with Water-Proof Glue, Two Levels and 4 Plumbs, Protected Glasses, Used Either Side Up.

| | | |
|-------------------|-----------------|-----------------|
| Length, Inches | 42 | 48 |
| Weight Each, Lbs. | 2 $\frac{1}{4}$ | 2 $\frac{3}{4}$ |
| Each | \$7.50 | 8.00 |

Three in a Carton.



No. 40—Brass Bound

Two Levels and 4 Plumbs, Protected Glasses Used Either Side Up.

| | | |
|-------------------|--------|-----------------|
| Length, Inches | 42 | 48 |
| Weight Each, Lbs. | 3 | 3 $\frac{1}{2}$ |
| Each | \$6.50 | 7.50 |

Three in a Carton.



No. 3—White Pine, Red Water-Proof Finish

Two Levels and 4 Plumbs, Protected Glasses, Brass End Plate, Used Either Side Up.

| | | |
|-------------------|--------|-----------------|
| Length, Inches | 42 | 48 |
| Weight Each, Lbs. | 2 | 2 $\frac{1}{4}$ |
| Each | \$4.50 | 5.00 |

Three in a Carton.

STANLEY



Extra Quality Light Wood

One Double Level, Four Plumbs, Six Proved Glasses, Used Either Side Up. Each

| | |
|---|--------|
| No. 252—48 in. Long, 2 $\frac{1}{4}$ in. Wide, Weight Each 2 $\frac{1}{4}$ Lbs. | \$3.75 |
| One in a Box. | |

SANDS ALUMINUM



With Four Plumbs and Two Levels

High Grade Aluminum, Strong and Light, Protected Glasses, Will Plumb or Level Either Side Up. Each

| | |
|---|---------|
| No. 42—42 in. Long, 2 $\frac{3}{4}$ in. Wide, 1 $\frac{1}{8}$ in. Thick, Weight Each 4 $\frac{1}{2}$ Lbs. | \$12.00 |
| One in a Box. | |

METALLIC PLUMBS AND LEVELS

STANLEY ADJUSTABLE



No. 36G—With Grooved Bottoms

Japanned Body, Nickel Trimmings, Adjustable, Proved Glasses. Groove in Bottom Permits Use of the Level on Shafting in addition to its use as a Regular Level.

| | | | | | |
|-------------------|--------|-------|-------|------|-------|
| Length, Inches | 6 | 9 | 12 | 18 | 24 |
| Weight Each, Lbs. | 7/8 | 1 1/4 | 1 7/8 | 3 | 4 1/4 |
| Each | \$1.90 | 2.30 | 2.75 | 3.30 | 3.70 |

One in a Box.

STANLEY IMPROVED ADJUSTABLE



No. 37G—With Grooved Bottoms

Nickel Plated Iron Body, Nickel Trimmings, Adjustable Ground Glasses, Eclipse Case Cover, Two Plumbs.

| | | | |
|-------------------|--------|------|-------|
| Length, Inches | 12 | 18 | 24 |
| Weight Each, Lbs. | 1 7/8 | 3 | 4 1/4 |
| Each | \$3.70 | 4.45 | 5.15 |

Groove in bottom permits use of the level on shafting in addition to its use as a regular level.

The Eclipse Cover is an outer shell or tube fitting over the level case, which can be turned either to expose the level glass when in use, or to protect it when not in use.

One in a Box.

STARRETT



No. 132—With Double Plumb

Grooved Bottoms, Graduated Vials, Black Enamel Finish. The 4 to 12 in. have Square Ends. The 18 and 24 in. Sizes are Furnished with Concave Ends.

| | | | | | | |
|-------------------|--------|------|-------|-------|-------|------|
| Length, Inches | 4 | 6 | 9 | 12 | 18 | 24 |
| Weight Each, Lbs. | 3/4 | 7/8 | 1 1/4 | 1 3/4 | 2 3/4 | 4 |
| Each | \$1.65 | 1.80 | 2.00 | 2.10 | 3.00 | 3.50 |

One in a Box.

STARRETT ENGINEERS AND PLUMBERS



With Grooved Bottom

The Hinged Tube inside the frame contains a level glass and is adjusted to a graduated scale and shows any incline by 32nds (or less) to 2 inches to the foot. A fixed level and plumb in addition makes this a practical tool for all class of work.

| | Plain Vial | | Ground Vial | |
|-------------------|------------|-------|-------------|-------|
| Nos. | 133A | 133B | 133C | 133D |
| Length, Inches | 10 | 15 | 10 | 15 |
| Weight Each, Lbs. | 1 7/8 | 2 5/8 | 1 7/8 | 2 5/8 |
| Each | \$3.75 | 4.00 | 7.00 | 7.25 |

One in a Box.

IRON BENCH LEVELS

STARRETT IMPROVED ADJUSTABLE



Style of 6 and 8 inch.



Style of 12 inch.

For Testing Shafting

Japanned Iron Base, Nickel Plated Trimmings.

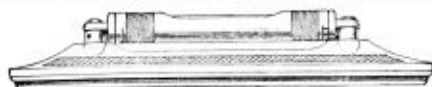
| No. 97—With Plain Vial | | | | |
|-------------------------|--------|------|------|-------|
| Length, Inches | 6 | 8 | 12 | *18 |
| Each | \$2.25 | 2.75 | 4.00 | 6.00 |
| No. 98—With Ground Vial | | | | |
| Length, Inches | 6 | 8 | 12 | *18 |
| Each | \$4.25 | 5.00 | 7.00 | 10.00 |

*The 18 inch size is furnished with double plumbs. In addition to the regular parallel vial, the bases have a cross level which enables one to place or hold the base on a shaft level in its cross section, not canted sidewise, for the shape of a level glass is such that though true as adjusted on a flat surface, it will not be reliable when canted sidewise.

One in a Box.

LEVELS

STANLEY ECLIPSE ADJUSTABLE MACHINISTS



No. 34G—With Grooved Bottoms

For Work on Shafting, Piping, etc. Iron Base, Nickel Plated, Ground Glass, Revolving Glass Protector.

| | | | |
|-------------------|--------|-------|-------|
| Length, Inches | 6 | 8 | 10 |
| Weight Each, Lbs. | 3/4 | 1 1/4 | 1 3/4 |
| Each | \$2.10 | 2.80 | 3.10 |

One in a Box.

STANLEY MACHINISTS IRON



Nickel Plated

Iron Case, Proved Level Glasses.

| | | |
|------------------|--------|--------|
| Nos. | 38 1/2 | 39 1/2 |
| Length, Inches | 4 | 6 |
| Weight Each, Oz. | 2 1/4 | 4 3/4 |
| Each | \$0.75 | .95 |

Six in a Box.

STARRETT POCKET



Japanned Iron Base, Proved Glass

| | |
|---|--------|
| No. 130—3 1/2 in. Long, Weight Each 3/4 Lb. | Each |
| One in a Box. | \$0.60 |

STANLEY HEXAGON POCKET



No. 31—Nickel Plated

Metal Case, Proved Level Glass.

| | | | | |
|------------------|--------|-------|-------|-------|
| Length, Inches | 2 | 2 1/2 | 3 | 3 1/2 |
| Weight Each, Oz. | 3/4 | 7/8 | 1 1/4 | 1 3/4 |
| Each | \$0.45 | .50 | .60 | .75 |

Six in a Box.

STANLEY STRAIGHT EDGE



Brass Top Plate

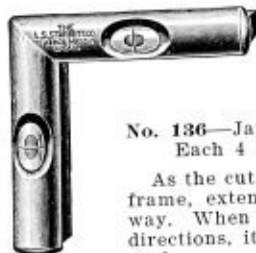
Japanned Iron, Proved Glass.

| | |
|---|--------|
| No. 41—3 1/2 in. Long, Weight Each 2 Oz. | Each |
| Can be attached to any straight edge or carpenters' square. | \$0.25 |

Twelve in a Box.

CROSS TEST LEVELS

STARRETT



Levels in Both Directions

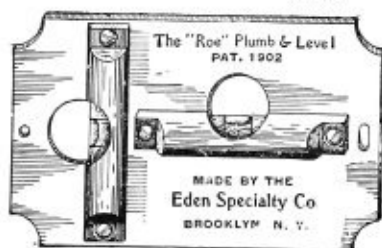
| | |
|--|--------|
| No. 136—Japanned, Size 2 3/4 in., Weight | Each |
| Each 4 Oz. | \$0.90 |

As the cut shows, two levels are united in one frame, extending at right angles 2 3/4 in. each way. When placed on work to be leveled in both directions, it will not be necessary to move the tool.

One in a Box.

STRAIGHT EDGE LEVELS

ROE



Aluminized Steel

Quickly Detachable and Adjustable to Any Straight Edge. Especially Adapted for Masons, Carpenters or Plumbers Use. Fitted with Colored Level Glasses.

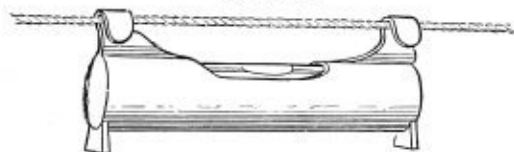
- No. 25. Per Dozen
No. 25—Plumb and Level $5\frac{1}{2} \times 3\frac{1}{4}$ in. with 2 Glasses \$24.00
No. 01—Level Only $3\frac{1}{2} \times 2\frac{1}{2}$ in. with 1 Glass 12.00
One in a Box.

LINE LEVELS
STARRETT ALUMINUM

For Laying Foundations, Road Building, Etc.

- No. 108—3 in. Long, $\frac{3}{8}$ in. Diameter, Weight $\frac{1}{2}$ Oz. Each \$0.60
One in a Box.

SIMPLEX



For Use on Line or Bench

- Stamped from Sheet Aluminum, Weighs Only One-Quarter Ounce. The Extension Lugs are Ground to Permit Level to be Used on Flat Surfaces. Per Dozen
No. 201—2 $\frac{1}{4}$ in. Long, Weight Each $\frac{1}{4}$ Oz. \$6.00
One Dozen on Display Card.

LEVEL GLASSES
STANLEY PROVED

Extra Thick Tubing

Marked at Crowning Point by Two Indelible Lines.

| | | | | |
|--------------------|---------------|-----------------|-----------------|-----------------|
| Length, Inches | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ |
| Weight Dozen, Lbs. | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |
| Per Dozen | \$1.20 | 1.20 | 1.20 | 1.20 |
| Length, Inches | 2 | 2 $\frac{1}{2}$ | 3 | 3 $\frac{1}{2}$ |
| Weight Dozen, Lbs. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{5}{8}$ |
| Per Dozen | \$1.20 | 1.20 | 1.80 | 1.80 |

One Dozen in a Box.

LEVEL SIGHTS

STANLEY



Iron, Gun Metal Finish

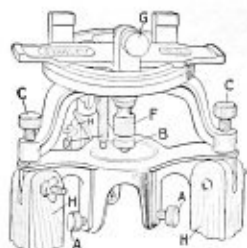
For Sighting Level for One Given Point to Another a Distance Away.

- No. 1—For Wood Levels, Weight Per Pair 4 Oz. \$1.25
No. 2—For Iron Levels, Weight Per Pair 4 Oz. 1.25
One Pair in a Box.

LEVELING STANDS

STANLEY

For Holding Level with Sights Attached



Consists of Base and Rotating Level Carrier. Attached by Set Screw (A) to one stake. Base is provided with 3 Wings (H) for attaching to Tripod Legs. The Adjusting Screws (C) provide Adjustment when Base is used on Flat Surfaces. The Swivel may be locked by Knurled Screw (F) under Center Screw (G) holds Level on the Swivel. All parts of the Stand are made of Metal, Nickel Plated.

- No. 38—For Metal Levels, Weight Each 2 $\frac{1}{2}$ Lbs. Each \$3.15
No. 48—For Wood Levels, Weight Each 2 $\frac{1}{2}$ Lbs. 3.15
One in a Box.

PLUMB BOBS

IRON

Japanned Iron, Adjusted Top

| | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Nos. | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 5 |
| Wt. Each, Oz. | 9 | 18 | 24 | 44 |
| Diameter, Inches | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 | 2 $\frac{1}{2}$ |
| Per Dozen | \$2.40 | 4.50 | 5.70 | 6.30 |

No. 1, One Dozen; Balance, One-half Dozen in a Box.

SARGENT

Nickel Plated Iron, Adjusted Top

| | | | |
|------------------|--------|-----|-----|
| Nos. | N28 | N30 | N31 |
| Weight Each, Oz. | 6 | 12 | 18 |
| Each | \$0.36 | .43 | .57 |

No. N28, Ten in a Box; Nos. N30 and N31, Five in a Box.

STARRETT MERCURY

No. 87—Nickel Plated

Knurled Steel Body, Filled with Mercury, Hardened Point, Complete with Braided Silk Line.

| | | | | |
|------------------|-----------------|---------------|-----------------|------|
| Length, Inches | 4 | 5 | 5 $\frac{1}{2}$ | 6 |
| Weight Each, Oz. | 3 $\frac{1}{2}$ | 6 | 12 | 16 |
| Diameter, Inches | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | 1 |
| Each | \$1.80 | 2.40 | 3.00 | 3.60 |

Fitted with a patented device for fastening the string.

One in a Box.

BRASS

With Screw Top

Cast Brass, Lead Filled, Steel Point.

| | | |
|------------------|------------------|------|
| Nos. | 6 | 8 |
| Weight Each, Oz. | 11 $\frac{1}{2}$ | 16 |
| Each | \$1.25 | 1.40 |

Five in a Box.

SURVEYORS

Adjustable Top

Machined from Solid Brass Bar, Steel Points Screwed In. Lacquered Finish.

| | | | | | |
|------------------|--------|------|------|------|------|
| Nos. | 50A | 50B | 50C | 50D | 50E |
| Weight Each, Oz. | 4 | 8 | 12 | 16 | 24 |
| Each | \$1.00 | 1.55 | 2.10 | 2.80 | 4.20 |

One in a Box.

HEXAGON

Steel, Brass Plated Adjusted Top, Hexagon Shape, Prevents Rolling.

| | | |
|------------------|-----------------------------------|----------------------------|
| Nos. | 180 | 1200 |
| Weight Each, Oz. | 8 | 12 |
| Size, Inches | $\frac{7}{8} \times 3\frac{3}{4}$ | 1 \times 4 $\frac{1}{2}$ |
| Per Dozen | \$4.00 | 5.00 |

One-half Dozen in a Box.

LEVELING INSTRUMENTS

STARRETT



For Attaining Angles in Horizontal Plane Only

For contractors, farmers, masons, etc. Light weight and has a wide range of work.

The upper plate is connected to the tripod head by a ball and socket joint, and is leveled by the leveling screws. This plate is recessed to contain a graduated arc for taking angles, and on the plate is the frame with level and sight tube for taking horizontal angles only. The nickel plated sight tube on this instrument is plain, with no lenses, 12 in. long, with small eye aperture and the usual cross wires.

| | |
|--|---------|
| No. 101A—With Plain Sight Tube, Long Legs and Plain Level Vial..... | Each |
| No. 101B—With Plain Sight Tube, Long Legs and Ground Level Vial..... | \$15.00 |
| No. 101C—With Telescope, Long Legs and Ground Level Vial..... | 16.75 |
| Iron Target—Without Pole..... | 25.00 |
| | 1.50 |

STARRETT TRANSIT



Furnished in Wood Carrying Case

The instrument is composed of iron and brass, and consists of a tripod, to the head of which is connected by a ball-and-socket joint an upper plate which can be leveled by the leveling screws.

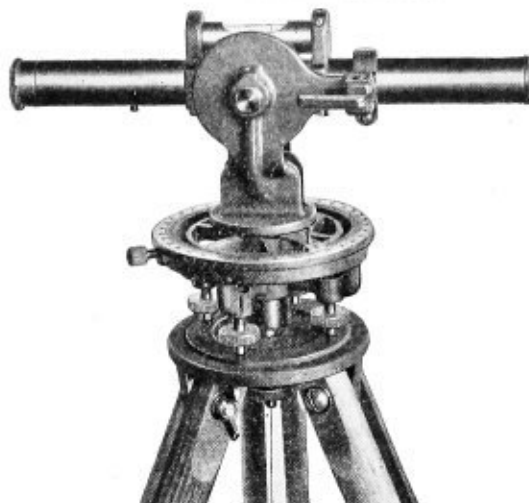
The plate is recessed to contain a graduated arc for taking horizontal angles. This arc is $\frac{1}{2}$ of a circumference, reading 90° each side of 0, and being independent of level and sight tube can be turned and used at any point of a complete circle. On this plate rests a triangular frame to which are attached a level, a graduated arc for taking vertical angles, graduated 45° each side of 0, and a sight tube. The plain sight tube has no lenses, is brass, 12 in. long; in one end is a small eye aperture, in the other the usual cross wires.

The telescope has cross lines, is adjustable to distances, and is same size and length as plain sight tube. The lens is well protected from dirt and breakage by a friction cap, and a shutter for the eye aperture.

With short legs, as shown in the cut, the instrument is 8 in. high. With long extension legs, which fasten on over the short legs, the height can be adjusted from 2 ft. 8 in. to 4 ft. 8 in. The sight tube, level case, and graduated arcs are nickel plated, the other parts are japanned.

| | |
|--|---------|
| No. 99B—With Plain Sight Tube, Long Legs and Plain Level Vial..... | Each |
| No. 99F—With Telescope, Long Legs and Ground Level Vial..... | \$20.00 |
| Iron Target—Without Pole..... | 40.00 |
| | 1.50 |

WHITE IMPROVED DUPLEX



A Low Priced Combination Level-Transit

Polished brass telescope 10 in. long. Drawer eyepiece. Fixed cross hairs, ten diameters achromatic lens system showing objects upright, provided with index lock permitting release into tilting position up to 45° above or below horizon. Bronze adjustable standards. Silvered brass circle $4\frac{1}{4}$ in. diameter, divided by 360° in quadrants, revolving under arm. Bronze leveling head. Three point type bearing surface.

| | |
|--|---------|
| No. 2052—Polished Brass, Lacquered and Olive Green, Complete with Tripod, Plumb Bob, Flexible Leveling Rod and Carrying Case, Weight 17 Lbs..... | Each |
| No. 2052R—With Rigid Extension Rod Instead of Standard Flexible Rod..... | \$35.00 |
| | 38.00 |

UTILITY FARM LEVEL



For Contractors, Road Builders and Farmers

The sturdiest, most compact, and most practical instruments of its kind ever put on the market. It has a 10 in. telescope with adjustable eye piece, fixed cross hairs, ten diameter achromatic lens system, horizontal circle graduated to degrees, index arm, four leveling screws and spirit level.

| | |
|---|---------|
| No. 2050—Complete Equipment Including Carrying Case, Tripod, Plumb Bob, $12\frac{1}{2}$ ft. Flexible Rod, and a Book of Instructions, Weight Each 14 Lbs..... | Each |
| | \$25.00 |

LEVELING INSTRUMENTS

WHITE CONTRACTORS DUMPY LEVEL



No. 2038.

These instruments will be found very serviceable for Millwrights, Architects, Mason Contractors and Builders, also for Drainage Contractors for tile draining and other operations where lines are to be run with stations but a short distance apart.

Especially designed to meet the growing demand for a level selling at a moderate price, but still possessing the essential characteristics of the higher priced "Y" level. The telescope is 12 inches long with magnifying power 25 diameters. Aperture of objective lens $1\frac{1}{4}$ inches. Horizontal circle $4\frac{1}{2}$ inches in diameter and graduated from 0 to 90 degrees each way, with vernier reading to 5 minutes. The circle can be set at zero at any given point. Center extra long and well tapered, and made of hard bell metal. Telescope of fine definition, and the objective lens is focused by rack and pinion of improved make. Improved eye-piece for precise focusing of the cross-hairs. Telescope yokes of

best composition metal, permanently fixed, thus insuring greater stability. This instrument, unlike the "Y" level, has very few adjustments and when once adjusted it stays adjusted a longer period of time. Tripod is made of best seasoned hardwood. A metal trivet having three sharp points, for placing the level on any surface of wood or stone, is furnished with each instrument. Level vial is extra long, carefully ground and graduated on the glass. Instrument packed erect, ready for use, in polished hardwood box with strap, containing full directions for use, together with screw capped plumb bob, sun shade, dust cap and adjusting pins.

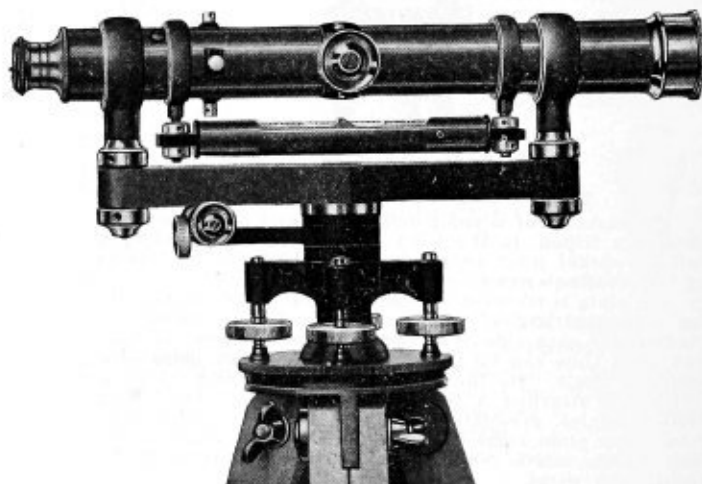
No. 2038—Complete with Tripod, Case and Accessories, Weight 28 Lbs. Each \$65.00

No. 2039—Same as No. 2038, with the Exception that it is Provided with a Clamp and Tangent Movement, thus Enabling the Instrument to be Clamped More Securely and a Movement in the horizontal Plane to be Made More Accurately 70.00

WHITE ROAD BUILDERS LEVEL

This recently designed Instrument has instantly met with the approval of road builders throughout the United States and Canada and is without exception the finest Level of its class on the market.

The telescope is 12 inches long with magnifying power 25 diameters. Aperture of objective lens $1\frac{1}{4}$ inches. Center extra long and well tapered and made of hard bell metal. Telescope of fine definition, objective lens focused by rack and pinion of improved make. Improved eye-piece for precise focusing of the cross-hairs. Telescope yokes of the best composition metal, permanently fixed, thus insuring great stability. This instrument, unlike the "Y" level, has very few adjustments and when once adjusted stays adjusted a long period of time. Tripod is made of best seasoned hardwood. A metal trivet having three sharp points, for placing the level on any surface of wood or stone, furnished with each instrument. Level vial is extra long, carefully ground and graduated on the glass. Instrument packed erect, ready for use, in polished hardwood box with strap, containing full directions for use, together with screw capped plumb bob, sun shade, dust cap and adjusting pins.



No. 2036.

No. 2035—Complete with Tripod, Case and Accessories, Weight 28 Lbs. Each \$60.00

No. 2036—Same as No. 2035, with the Exception that it is Provided with a Clamp and Tangent Movement, Thus Enabling the Instrument to be Clamped More Securely and a Movement in a Horizontal Plane to be Made More Accurately 65.00

LEVELING INSTRUMENTS

WHITE IMPROVED CONVERTIBLE



No. 2020.

The "White" Convertible Level, a combination Level and Transit, is an instrument indispensable for the speedy and accurate performance of every known building operation. It is especially recommended to Architects, Contractors and Builders, Millwrights and Drainage Engineers, Mason Contractors and Landscape Gardeners, Grading Contractors and Road Engineers.

Telescope—12 in. long with dust shade. Magnifying power 25 diameters showing objects erect. Object glass $1\frac{1}{4}$ in. aperture, rack and pinion movement to object slide, spiral movement to eye-piece. Cross hairs, sun-shade and dust-cap. Range 5 feet to one mile. Lenses of finest quality, level to telescope 4 in. long, housed in tube with protection bridge, graduated on the glass and ground to a sensitiveness of 60 sec. of arc to $\frac{1}{10}$ in. motion of bubble.

Cross-Bar and Wyes—Cross-bar and standards are cast integral and heavily ribbed and strengthened. Wyes (one of which is adjustable) are of improved design with lock-nuts for locking yokes, dispensing with old style pin bolts. One wye yoke is provided with stop insuring true position of cross-hairs when leveling. Cross-bar and standards are constructed of steel-like bell metal. Convertible standards provided with two brass straps which hold telescope firmly in the trunnions when in transit position.

Circle— $4\frac{1}{2}$ in. diameter with eight reinforced spokes, divided to degrees numbered 0—90 in quadrants and reading by vernier to 5 minutes. Circle is movable for the purpose of setting same at zero at any given point and provided with a set-screw.

Leveling-Head—Improved design, heavily ribbed, with clamp and tangent screw. Four leveling screws with shoes. Center extra long and constructed of hard bell-metal. Shifting center.

Regular Equipment—Solid leg tripod with iron shoes and protection cap to head. Bolts provided with wing nuts for tightening by hand. Polished hardwood carrying case with strong lock and strap. Six-ounce plumb-bob, trivet (for foundation work), sun-shade, and adjustable pins. Full instructions for use with each level.

Finish and Weight—Instrument is finished in rich olive alligatorite with small parts in bright gold, making a very tasty and durable finish.

Special Features of White Improved Convertible Levels

- (1) The cross-bar is drop-centered and cast integral with standards. (Patented.)
- (2) Spirit level glass always rests safely below telescope out of harm's way, whether used as level or transit.
- (3) No loose attachments to fasten on by means of thumb screws. Nothing to get out of order or adjustment. Always accurate. Always dependable.
- (4) Extra fine and powerful telescope (25 diameter power). Extra large objective lens ($1\frac{1}{4}$ in. aperture). Extra long telescope (12 in.)
- (5) Only ten seconds are required to change instrument from an accurate level to an equally accurate transit. Standards, which accommodate telescope when in transit position, do not interfere when instrument is used as a level; in fact, they serve as a protection to spirit level glass.
- (6) Shifting center.

| | |
|---|--------|
| No. 2020—Complete with Tripod, Case and Accessories, Weight 15 Lbs. . . . | Each |
| No. 2021—Same as No. 2020, but with Vertical Arc Divided to Degrees | |
| Numbered 0—40 Each Way and Reading by Vernier to 5 Minutes. . . . | 105.00 |

In Place of Regular Equipment, Both Levels, No. 2020 and No. 2021, May be Furnished with the Following Options:

- (A) Compass attached to instrument, of suitable accuracy for building work.
- (B) Heavy split leg tripod in place of regular solid leg tripod.
- (C) Heavy extension leg tripod, in place of regular solid leg tripod.
- (E) Fixed stadia hairs reading 1 foot in 100 feet on any rod.



No. 2021.

DRAWING KNIVES

SWAN REGULAR



No. 1480—Razor Blade

Solid Crucible Steel Blade, Heavy Steel Caps and Ferrules, Polished Hardwood Handles.

| | | | | |
|-------------------------|---------|-------|-------|-------|
| Length Blade, Inches... | 6 | 8 | 10 | 12 |
| Weight Dozen, Lbs... | 16 | 17 | 19 | 21 |
| Per Dozen | \$13.50 | 13.50 | 15.60 | 18.00 |

One-half Dozen in a Box.

SWAN CARRIAGE MAKERS



Beveled on Both Sides

Solid Crucible Steel Blade, Heavy Steel Caps and Ferrules, Polished Hardwood Handles.

| | |
|--|---------|
| No. 7482—8 in. Blade, Weight Per Dozen 16 Lbs... | \$12.00 |
|--|---------|

One-half Dozen in a Box.

BUCK BROS.



Razor Blade

Solid Forged Steel Blade, Black Finish, Nickel Plated Steel Ferrules and Caps, Polished Hardwood Handle.

| | |
|---|---------|
| No. 71½—8 in. Blade, Weight Per Dozen 16 Lbs... | \$18.50 |
|---|---------|

One-half Dozen in a Box.

PEXTO FOLDING



No. 10—Forged Steel Blade

Handles Adjustable to Four Different Positions.

| | | |
|----------------------|---------|-------|
| Length, Inches | 8 | 10 |
| Weight Dozen, Lbs... | 15¾ | 19½ |
| Per Dozen | \$28.00 | 30.50 |

One-half Dozen in a Box.

SWAN LINEMENS



No. 7485—Heavy Crucible Steel Blade

For Linemens Use and Other Heavy Work.

| | | | |
|--------------------------|---------|-------|-------|
| Length Blade, Inches... | 10 | 12 | 14 |
| Weight Per Dozen, Lbs... | 30 | 33 | 36 |
| Per Dozen | \$18.00 | 21.60 | 25.20 |

One-half Dozen in a Box.

DRAWING KNIVES

BUCK BROS. AMATEUR



No. 71—Straight Blade

Forged Steel Blade, Polished, Nickel Plated Ferrules, Polished Applewood Handle.

| | |
|-------------------------|---------|
| Length Blade, Inches... | 5½ |
| Weight Dozen, Lbs... | 10 |
| Per Dozen | \$21.00 |

One-half Dozen in a Box.

PEXTO PONY



Razor Blade

Crucible Steel and Norway Iron, Round Ebonized Handles, Heavy Ferrules, Handles are Set at 45 Degrees.

| | |
|--|--------|
| No. 4—4 in. Polished Blade, ¾ in. Wide, Weight Per Dozen 3½ Lbs... | \$6.50 |
|--|--------|

One-half Dozen in a Box.

CORNERING TOOLS

STANLEY

For Rounding Sharp Edges

Special Tool Steel, Nickel Plated, used by Pattern Makers and Woodworkers.



| | | |
|-------------------------|--------|-------|
| Nos. | 28 | 29 |
| Cutting Size, Inches... | 1½—1¾ | 1¾—1½ |
| Length, Inches | 5½ | 5½ |
| Weight Each, Oz... | 2 | 2 |
| Per Dozen | \$4.80 | 4.80 |

These Tools have a different size cutter at each end and their form is such that no depth gauge is required.

One-half Dozen in a Box.

BLIND NAIL TOOLS

STANLEY

Nickel Plated Steel



No. 96

This tool can be attached to a ¼ in. Chisel and permits a shaving of any desired thickness to be raised for blind nailing or inlaid work.

| | |
|--|--------|
| No. 96—2¼ in. Long, Weight Per Dozen 1 Lb... | \$4.80 |
|--|--------|

One-half Dozen in a Box.

SPOKE SHAVES

REGULAR WOOD



Plain Face

Polished Hardwood, Cast Steel Blades.

| | | | | |
|-------------------------|---------|-------|-------|-------|
| Nos. | 36 | 37 | 38 | 39 |
| Length Blade, Inches... | 2 | 2½ | 3 | 3½ |
| Weight Dozen, Lbs... | 3 | 3¼ | 3¾ | 5 |
| Per Dozen | \$11.00 | 12.00 | 13.00 | 13.00 |

One-half Dozen in a Box.

NARROW BLADE WOOD



Polished Hardwood, Cast Steel Blades Per Dozen

| | |
|---|---------|
| No. 49F—Flat Face, 1½ in. Blade, Weight Per Dozen 1 Lb... | \$11.00 |
| No. 49R—Round Face, 1½ in. Blade, Weight Each 1 Lb... | 11.00 |

One-half Dozen in a Box.

SPOKE SHAVES**STANLEY ADJUSTABLE**

Has a lever cap fastening the cutter in such a manner as to bring an even pressure on the cutter edge.

The cutter can be quickly adjusted both endwise and sidewise by means of the adjusting screws which engage the slots near the end.

**Side and End Adjustment**

Japanned Iron Handles, Cast Steel Cutter, Raised Handles.
Per Dozen
No. 151—10 in. Long, 2 1/8 in. Cutter, Weight Each
12 Oz. \$9.00
Extra Cutters 1.80

**Side and End Adjustment**

Japanned Iron Handles, Cast Steel Cutters, Straight Handles.
Per Dozen
No. 152—10 in. Long, 2 1/8 in. Cutter, Weight Each
12 Oz. \$9.00
Extra Cutters 1.80

STANLEY IMPROVED

These Spoke Shaves have a cutter and cap iron fastened by thumb screw in such a manner as to bring an even pressure on the cutter edge, and at the same time allow adjustment without the use of a screw driver.

**Double Iron**

Japanned Iron Handle, Cast Steel Cutter, Straight Bottom, Raised Handles, Easily Adjusted without the Use of a Screw Driver.
Per Dozen
No. 51—10 in. Long, 2 1/8 in. Cutter, Weight Each
12 Oz. \$6.60
Extra Cutters 1.80

**Double Iron**

Japanned Iron Handle, Cast Steel Cutter, Straight Bottom, Straight Handles, Easily Adjusted without the Use of a Screw Driver.
Per Dozen
No. 52—10 in. Long, 2 1/8 in. Cutter, Weight Each
12 Oz. \$6.60
No. 55—With Hollow Face 6.00
Extra Cutters 1.80

STANLEY DOUBLE**Two Cutters**

Japanned Iron Handles, Cast Steel Cutters, Per Dozen
No. 60—10 in. Long, 1 1/2 in. Cutters, Weight Each
12 Oz. \$9.00
Extra Cutters 1.80
Has two cutters and separate cutter seats, one hollow and one straight. The two forms of cutters in one tool make it a very handy spoke shave.

All Above, One-half Dozen in a Box.

STANLEY RABBIT**Straight Handles**

Japanned Iron Handles, Cast Steel Cutters.
Per Dozen
No. 68—10 3/4 in. Long, 2 1/8 in. Cutter, Weight Each
1 1/4 Lbs. \$15.00
Extra Cutters 5.40
Carriage makers, car builders and cabinet makers will find this a very convenient tool for finishing panels, rabbits, etc.
One in a Box.

SPOKE SHAVES**BAILEY IRON****Adjustable Mouth**

Japanned Iron Handles, Cast Steel Cutters, Raised Handles.

By means of a thumb screw the mouth can be opened or closed as coarse or fine work may require.

Per Dozen
No. 53—10 in. Long, 2 1/8 in. Cutter, Weight Each
12 Oz. \$8.40
Extra Cutters 1.80

**Adjustable Mouth**

Japanned Iron Handles, Cast Steel Cutters, Straight Handle. By means of a thumb screw the mouth can be opened or closed as coarse or fine work may require.

Per Dozen
No. 54—10 in. Long, 2 1/8 in. Cutter, Weight Each
12 Oz. \$8.40
Extra Cutters 1.80

BAILEY LIGHT**Double Iron**

Japanned Iron Handles, Cast Steel Cutter, Straight Handle, Straight Bottom, Cutter and Cap Iron Fastened by a Thumb Screw.

Per Dozen
No. 64—9 in. Long, 1 3/4 in. Cutter, Weight Per Dozen
5 1/2 Lbs. \$4.20
Extra Cutters 1.80

BAILEY EXTRA LIGHT**Straight Handles**

Japanned Iron Handles, Cast Steel Cutters, Per Dozen
No. 63X—9 in. Long, 1 1/2 in. Cutter, Weight Each
7 Oz. \$5.40
Extra Cutters 1.80

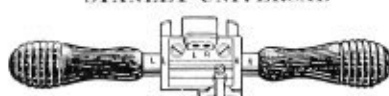
Designed especially for use in Manual Training Schools, or for any work requiring the use of an extra light Spoke Shave.

BAILEY ADJUSTABLE CHAMFER**Raised Handles.**

Japanned Iron Handles, Cast Steel Cutters. Can be Adjusted to Chamfer Up to 1 1/2 Inch.

Per Dozen
No. 65—9 1/2 in. Long, 1 1/2 in. Cutter, Weight Each
11 Oz. \$10.80
Extra Cutters 1.80

All Above, One-half Dozen in a Box.

STANLEY UNIVERSAL**With Detachable Bottoms and Width Gauge**

Nickel Plated Metal Parts, Rosewood Handles, Cast Steel Cutter.

Each
No. 67—9 1/4 in. Long, 1 3/8 in. Cutter, Weight Each
3/4 Lb. \$2.05
Extra Cutters40

Complete with Two Detachable Bottoms, One for Straight Work, the Other for Circular Work.

The handles are detachable, and either one can be screwed in the top of the stock, enabling the user to work into corners or panels.

One in a Box.

STANLEY EVERLASTING CHISELS



The Head, Shank and Blade are of patented construction, having the head, shank and blade forged from one piece of tool steel, as shown in the cut above.

This construction insures great strength and durability and provides for a maximum of efficiency, as a blow on the head of the Chisel is transmitted directly to the cutting edge. Great care is used in the manufacture, especially in the heat treatment of the blade.

The Handle is made from selected hickory and is well finished and fits very snugly into the ferrule. A leather washer is placed between the handle and the steel head to serve as a cushion, thus relieving the handle from shock when the blow is struck.

The Ferrule is machined from bar steel and is assembled to the Chisel by swaging the ferrule into the double taper in the shank, practically making the shank and ferrule one piece.

The cutting edges are ground sharp before leaving the factory.

FIRMER



No. 20—Beveled Edge

Extra Quality Tool Steel Blade, 5 1/2 inches Long.

| | | | | |
|---------------------------|---------|--------|--------|--------|
| Width, Inches..... | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Length Over All, Inches.. | 11 1/4 | 11 1/2 | 11 3/4 | 12 1/4 |
| Weight Dozen, Lbs..... | 4 1/4 | 4 3/4 | 5 1/4 | 5 1/2 |
| Per Dozen..... | \$15.00 | 15.60 | 16.80 | 17.40 |
| Width, Inches..... | 5/8 | 3/4 | 7/8 | 1 |
| Length Over All, Inches.. | 11 1/4 | 11 1/2 | 11 3/4 | 12 1/4 |
| Weight Dozen, Lbs..... | 6 | 6 1/2 | 7 1/2 | 8 1/2 |
| Per Dozen..... | \$18.00 | 18.60 | 19.80 | 20.40 |
| Width, Inches..... | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Length Over All, Inches.. | 12 1/4 | 12 1/2 | 12 3/4 | 13 1/4 |
| Weight Dozen, Lbs..... | 10 1/2 | 12 | 13 | 15 1/2 |
| Per Dozen..... | \$22.20 | 25.20 | 27.60 | 30.60 |

One-half Dozen in a Box.

POCKET



No. 40—Beveled Edges

Extra Quality Tool Steel Blade, 4 1/2 inches Long.

| | | | | |
|---------------------------|---------|--------|--------|--------|
| Width, Inches..... | 1/8 | 3/4 | 3/8 | 1/2 |
| Length Over All, Inches.. | 9 | 9 | 9 | 9 |
| Weight Dozen, Lbs..... | 3 3/4 | 4 | 4 1/2 | 5 |
| Per Dozen..... | \$13.20 | 13.80 | 15.00 | 15.60 |
| Width, Inches..... | 5/8 | 3/4 | 7/8 | 1 |
| Length Over All, Inches.. | 9 | 9 | 9 | 9 |
| Weight Dozen, Lbs..... | 5 1/4 | 5 1/2 | 6 | 6 1/4 |
| Per Dozen..... | \$16.20 | 16.80 | 17.40 | 18.00 |
| Width, Inches..... | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Length Over All, Inches.. | 10 1/4 | 10 1/2 | 10 3/4 | 11 1/4 |
| Weight Dozen, Lbs..... | 9 | 10 | 11 1/2 | 13 1/4 |
| Per Dozen..... | \$16.80 | 22.80 | 24.00 | 27.00 |

One-half Dozen in a Box.

BUTT

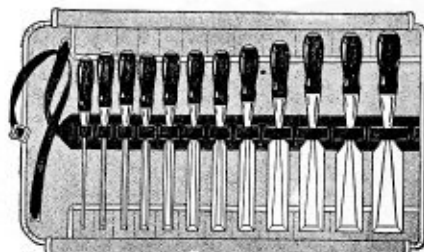


No. 50—Beveled Edges

Extra Quality Tool Steel Blade, 3 inches Long.

| | | | | |
|---------------------------|---------|-------|--------|-------|
| Width, Inches..... | 1/8 | 3/4 | 3/8 | 1/2 |
| Length Over All, Inches.. | 8 | 8 | 8 | 8 |
| Weight Dozen, Lbs..... | 3 3/4 | 4 | 4 1/4 | 4 1/2 |
| Per Dozen..... | \$13.20 | 13.20 | 14.40 | 15.00 |
| Width, Inches..... | 5/8 | 3/4 | 7/8 | 1 |
| Length Over All, Inches.. | 8 | 8 | 8 | 8 |
| Weight Dozen, Lbs..... | 4 3/4 | 5 | 5 1/4 | 5 3/4 |
| Per Dozen..... | \$15.60 | 15.60 | 16.80 | 17.40 |
| Width, Inches..... | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Length Over All, Inches.. | 9 | 9 | 9 | 9 |
| Weight Dozen, Lbs..... | 8 | 9 | 10 1/2 | 12 |
| Per Dozen..... | \$19.20 | 21.60 | 22.80 | 25.80 |

FIRMER, IN SETS



In Brown Canvas Roll

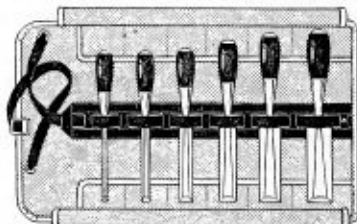
Per Set

No. 701 Set—Consists of Twelve No. 20 Beveled Edge Firmer Chisels, One Each 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4 and 2 in., Weight Per Set 8 3/4 Lbs.....

\$22.10

One Set in a Box.

POCKET, IN SETS



In Brown Canvas Roll

Per Set

No. 110 Set—Consists of Six No. 40 Beveled Edge Pocket Chisels, One Each 1/8, 1/4, 3/8, 1/2, 5/8 and 3/4 in., Weight Per Set 3 1/2 Lbs.....

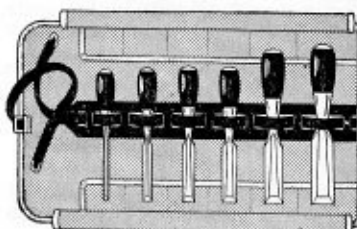
\$10.00

No. 210 Set—Consists of Nine No. 40 Beveled Edge Pocket Chisels, One Each 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4 and 1 1/2 in., Weight Per Set 4 3/4 Lbs....

13.80

One Set in a Box.

BUTT, IN SETS



In Brown Canvas Roll

Per Set

No. 120 Set—Consists of Six No. 50 Beveled Edge Butt Chisels, One Each 1/8, 1/4, 3/8, 1, 1 1/4 and 1 1/2 in., Weight Per Set 3 1/4 Lbs.....

\$9.50

One Set in a Box.

CHISELS

SWAN SOCKET FIRMER



No. 1010—Plain Edges

Solid Crucible Steel Blade $6\frac{1}{2}$ in. Long, Selected Hickory Handle.

| | | | | |
|--------------------|----------------|---------------|----------------|---------------|
| Width, Inches | $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{5}{8}$ | $\frac{1}{2}$ |
| Weight Dozen, Lbs. | $3\frac{1}{2}$ | 4 | $4\frac{1}{2}$ | 5 |
| Per Dozen | \$12.50 | 12.50 | 12.50 | 12.50 |

| | | | | |
|--------------------|----------------|---------------|----------------|-------|
| Width, Inches | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Weight Dozen, Lbs. | $6\frac{1}{2}$ | 7 | $7\frac{1}{2}$ | 8 |
| Per Dozen | \$14.00 | 14.50 | 16.00 | 16.50 |

| | | | | |
|--------------------|-----------------|----------------|----------------|-------|
| Width, Inches | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | 2 |
| Weight Dozen, Lbs. | $10\frac{1}{2}$ | 12 | 14 | 15 |
| Per Dozen | \$18.50 | 20.00 | 22.00 | 23.00 |

One-half Dozen in a Box.

SWAN SHORT SOCKET FIRMER

No. 1035 $\frac{3}{4}$ —Beveled Edge, Leather Capped Handle

Solid Crucible Steel Blade, $4\frac{1}{2}$ in. Long, Selected Hickory Handle.

| | | | | |
|--------------------|----------------|----------------|---------------|---------------|
| Width, Inches | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Weight Dozen, Lbs. | $2\frac{1}{2}$ | $2\frac{3}{4}$ | 3 | 4 |
| Per Dozen | \$14.00 | 14.00 | 14.00 | 14.00 |

| | | | | |
|--------------------|----------------|---------------|---------------|-------|
| Width, Inches | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Weight Dozen, Lbs. | $4\frac{1}{2}$ | 5 | 6 | 7 |
| Per Dozen | \$15.50 | 16.00 | 18.00 | 18.50 |

| | | | | |
|--------------------|----------------|----------------|----------------|-----------------|
| Width, Inches | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | 2 |
| Weight Dozen, Lbs. | 8 | 9 | $9\frac{1}{2}$ | $10\frac{1}{2}$ |
| Per Dozen | \$20.50 | 22.00 | 24.00 | 25.00 |

Add \$1.20 Per Dozen Net for Beveled Edge.

One-half Dozen in a Box.

CHISELS IN SETS

SWAN SOCKET FIRMER



In Fancy Wood Boxes

Equipped with Brass Springs for Holding Chisels in Place. Made of Hardwood and Varnished. Per Set

No. 6112—Set, Consists of Twelve No. 1010 Socket Firmer Chisels, One Each $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$ and 2 in., Weight Per Set 10 Lbs. \$16.70

No. 61512—Set, Consists of Twelve No. 1035 Beveled Edge Socket Firmer Chisels, One Each $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$ and 2 in. 18.50

CHISELS

BUCK BROS. SOCKET FIRMER



No. 36—Beveled Edges, Leather Tipped Handle

Extra Cast Steel, Ground Sharp. The 1 in. Chisel has $5\frac{1}{2}$ in. Blade. Selected Hickory Handle.

| | | | | | | |
|-----------------|----------------|----------------|----------------|----------------|---------------|----------------|
| Width, Inches | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Wt. Dozen, Lbs. | $4\frac{1}{2}$ | $5\frac{1}{4}$ | $5\frac{3}{4}$ | $7\frac{1}{4}$ | 8 | $8\frac{3}{4}$ |
| Per Dozen | \$18.20 | 18.20 | 18.20 | 19.60 | 20.60 | 22.20 |

| | | | | | | |
|-----------------|---------------|-----------------|----------------|----------------|----------------|-------|
| Width, Inches | $\frac{7}{8}$ | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | 2 |
| Wt. Dozen, Lbs. | 10 | $11\frac{1}{2}$ | 13 | 15 | 16 | 17 |
| Per Dozen | \$23.40 | 24.60 | 28.20 | 30.40 | 35.60 | 39.40 |

One-half Dozen in a Box.

SWAN SOCKET BUTT

No. 1035 $\frac{1}{2}$ —Beveled Edge, Leather Capped Handle

Solid Crucible Steel Blade, $3\frac{1}{4}$ in. Long, Selected Hickory Handle.

| | | | | | | |
|-----------------|----------------|---------------|----------------|----------------|----------------|----------------|
| Width, Inches | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Wt. Dozen, Lbs. | $3\frac{1}{2}$ | 4 | $4\frac{1}{2}$ | $5\frac{5}{8}$ | 6 | $6\frac{3}{4}$ |
| Per Dozen | \$14.00 | 14.00 | 16.00 | 18.50 | 20.50 | 22.00 |

Add \$1.00 Per Dozen Net for Beveled Edges.

One-half Dozen in a Box.

BUCK BROS. TANGED BUTT



No. 3—Plain Edge

Solid Crucible Steel Blade, $3\frac{1}{4}$ in. Long, Tempered and Polished Plain Applewood Handle.

| | | | | | |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| Width, Inches | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | 2 |
| Wt. Dozen, Lbs. | $4\frac{1}{2}$ | 5 | $5\frac{1}{2}$ | 6 | $6\frac{1}{2}$ |
| Per Dozen | \$12.00 | 15.60 | 18.80 | 22.40 | 26.20 |

One-half Dozen in a Box.

BUCK BROS. TANGED BUTT



No. 4—Beveled Edges

Extra Quality English Cast Steel, Blade $3\frac{1}{4}$ in. Long, Tempered and Polished, Fancy Applewood Handle.

| | | | | | | |
|-----------------|----------------|---------------|----------------|----------------|---------------|----------------|
| Width, Inches | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Wt. Dozen, Lbs. | $2\frac{1}{2}$ | 3 | $3\frac{1}{2}$ | $3\frac{3}{4}$ | 4 | $4\frac{1}{4}$ |
| Per Dozen | \$12.20 | 12.20 | 13.20 | 14.00 | 14.60 | 15.00 |

| | | | | | |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| Width, Inches | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | 2 |
| Wt. Dozen, Lbs. | $4\frac{1}{2}$ | 5 | $5\frac{1}{2}$ | 6 | $6\frac{1}{2}$ |
| Per Dozen | \$16.00 | 21.00 | 23.80 | 29.60 | 33.40 |

One-half Dozen in a Box.

CHISEL ROLLS



Brown Canvas

Each

No. 6R—To Hold 6 Chisels.....\$1.00
No. 12R—To Hold 12 Chisels.....1.50

CHISELS

BUCK BROS. HANDLED TANG FIRMER



No. 2—Plain Edges

Extra Quality English Cast Steel, Tempered and Polished, Applewood Handles, Heavy Polished Brass Ferrules, Blade of 1 in. Chisel is 5½ in. Long from Bolster.

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 2¾ | 3 | 3¼ | 4¼ | 4½ | 5 |
| Per Dozen | \$8.00 | 8.00 | 8.00 | 8.80 | 9.60 | 10.40 |
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 5¼ | 5½ | 7 | 7½ | 8½ | 10½ |
| Per Dozen | \$11.40 | 12.00 | 15.60 | 18.80 | 22.40 | 26.20 |

One-half Dozen in a Box.

BUCK BROS. HANDLED TANG FIRMER



No. 30—Beveled Edges

Extra Quality English Cast Steel, Tempered and Polished, Fancy Applewood Handles, Heavy Polished Brass Ferrules, Blade of 1 in. Chisel is 5½ in. Long from Bolster.

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 2¾ | 3 | 3¼ | 4 | 4¼ | 4½ |
| Per Dozen | \$12.20 | 12.20 | 12.20 | 13.20 | 14.00 | 14.60 |
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 4¾ | 5¼ | 6½ | 7 | 8 | 10 |
| Per Dozen | \$15.00 | 16.00 | 21.00 | 23.80 | 29.60 | 33.40 |

These Chisels are particularly adapted for Manual Training Work and are furnished as standard equipment for practically all schools. They are also recommended as a practical and high grade tool for the man who wants a good chisel for home use.

One-half Dozen in a Box.

BUCK BROS. HANDLED PARING



No. 32—Beveled Edges

Extra Quality English Cast Steel, Tempered and Polished, Fancy Applewood Handles, Heavy Polished Brass Ferrules, Blade of 1 in. Chisel is 8½ in. Long.

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 3 | 3¼ | 3½ | 4 | 5 | 6 |
| Per Dozen | \$17.60 | 17.60 | 17.60 | 18.00 | 19.40 | 20.40 |
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 7 | 8 | 10 | 11 | 14 | 17 |
| Per Dozen | \$21.40 | 23.60 | 30.40 | 34.80 | 41.00 | 47.00 |

One-half Dozen in a Box.

BUCK BROS. BENT SHANK HANDLED PARING



No. 15¼—Beveled Edges

Extra Quality English Cast Steel, Tempered and Polished, Applewood Handles, Heavy Polished Brass Ferrules, Blade of 1 in. Chisel is 8½ in. Long.

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 3½ | 4 | 4½ | 5 | 5½ | 6½ |
| Per Dozen | \$25.60 | 25.60 | 25.60 | 26.20 | 28.80 | 30.60 |
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 7½ | 8½ | 10½ | 11½ | 14½ | 17½ |
| Per Dozen | \$32.20 | 36.40 | 46.80 | 54.40 | 64.00 | 72.20 |

One-half Dozen in a Box.

CHISELS

SWAN SOCKET FRAMING



No. 1013—Beveled Back

Crucible Steel Blade, 8 in. Long, Polished Hickory Handle with Iron Ring.

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 8½ | 10½ | 12 | 13 | 14 | 16 |
| Per Dozen | \$15.50 | 15.50 | 15.50 | 16.50 | 16.50 | 18.00 |
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 17½ | 23 | 26 | 29½ | 33 | |
| Per Dozen | \$19.00 | 22.00 | 23.50 | 26.00 | 29.00 | |

One-half Dozen in a Box.

SWAN SOCKET CORNER



No. 7014—Extra Quality

Solid Crucible Steel, Blade 8 in. Long, Polished Hickory Handle with Iron Ring.

| | | | |
|-----------------------|---------|-------|-------|
| Width, Inches | ¾ | 1 | |
| Weight Dozen, Lbs.... | 9 | 14 | 21 |
| Per Dozen | \$36.00 | 42.00 | 48.00 |

One-half Dozen in a Box.

CARPENTERS SLICKS

SWAN



No. 1012½—Oval Back

Crucible Steel Blade 9 in. Long, Polished Maple Handles.

| | | |
|-----------------------|---------|--|
| Width, Inches | 3 | |
| Weight Dozen, Lbs.... | 54 | |
| Per Dozen | \$72.00 | |

One-quarter Dozen in a Box.

GOUGES

SWAN SOCKET FIRMER



No. 1210—Outside Bevel

Crucible Steel Blade, 6½ in. Long, Polished Hickory Handle.

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 3 | 4 | 4½ | 5 | 5½ | 6 |
| Per Dozen | \$14.00 | 14.00 | 14.00 | 15.00 | 15.50 | 16.50 |
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 7½ | 8 | 10½ | 12 | 14 | 15 |
| Per Dozen | \$18.00 | 19.00 | 21.50 | 24.00 | 26.00 | 30.00 |

One-half Dozen in a Box.

BUCK BROS. HANDLED FIRMER



No. 8—Outside Bevel

Extra Quality English Cast Steel, Tempered and Polished, Applewood Handle, Heavy Polished Brass Ferrules. The Blade of the 1 in. Chisel is 5½ in. Long from the Bolster. Ground Sharp.

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 1¾ | 2 | 3 | 3¼ | 4¼ | 5 |
| Per Dozen | \$11.20 | 11.20 | 11.20 | 11.80 | 12.80 | 13.80 |
| Width, Inches.. | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Wt. Dozen, Lbs. | 5¼ | 6 | 8 | 9 | 11 | 14 |
| Per Dozen | \$15.20 | 15.80 | 20.60 | 24.60 | 29.00 | 34.40 |

One-half Dozen in a Box.

GOUGES

BUCK BROS. HANDLED TANG FIRMER



No. 10—Inside Bevel

Extra Quality English Cast Steel, Tempered and Polished, Applewood Handle, Heavy Polished Brass Ferrule. Blade of 1 in. Chisel is 5 1/2 in. Long.

| | | | | | |
|-----------------|---------|-------|-------|-------|-------|
| Width, Inches.. | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
| Wt. Dozen, Lbs. | 1 1/4 | 2 | 3 | 3 3/4 | 4 1/4 |
| Per Dozen | \$12.80 | 12.80 | 12.80 | 13.60 | 14.20 |

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Wt. Dozen, Lbs. | 5 1/4 | 6 | 8 | 9 | 11 | 14 |
| Per Dozen | \$16.60 | 17.40 | 22.40 | 26.20 | 31.00 | 36.40 |

One-half Dozen in a Box.

BUCK BROS. HANDLED PARING



No. 14—Inside Bevel

Extra Quality English Cast Steel, Tempered and Polished, Applewood Handle, Heavy Polished Brass Ferrule. Blade of 1 in. Chisel is 8 1/2 in. Long. Made in Three Sweeps, Regular, Middle and Flat.

| | | | | | |
|-----------------|---------|-------|-------|-------|-------|
| Width, Inches.. | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
| Wt. Dozen, Lbs. | 3 | 3 1/4 | 3 1/2 | 4 | 5 |
| Per Dozen | \$20.40 | 20.40 | 20.40 | 21.00 | 21.80 |

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Wt. Dozen, Lbs. | 7 | 8 | 10 | 11 | 14 | 17 |
| Per Dozen | \$25.40 | 28.60 | 35.80 | 41.00 | 49.20 | 56.60 |

One-half Dozen in a Box.

BUCK BROS. BENT SHANK PARING



No. 15 1/2—Inside Bevel

Extra Quality English Cast Steel, Tempered and Polished, Applewood Handles, Heavy Polished Brass Ferrules. Made in Three Sweeps, Regular, Middle and Flat. The 1 in. Blade is About 8 1/2 in. Long.

| | | | | | |
|-----------------|---------|-------|-------|-------|-------|
| Width, Inches.. | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
| Wt. Dozen, Lbs. | 3 1/4 | 3 1/2 | 3 3/4 | 4 1/4 | 5 1/2 |
| Per Dozen | \$24.60 | 24.60 | 24.60 | 27.00 | 29.20 |

| | | | | | | |
|-----------------|---------|-------|--------|--------|--------|--------|
| Width, Inches.. | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Wt. Dozen, Lbs. | 7 1/2 | 8 1/2 | 10 1/2 | 11 1/2 | 14 1/2 | 17 1/2 |
| Per Dozen | \$32.00 | 35.40 | 44.00 | 49.00 | 56.00 | 64.40 |

One-half Dozen in a Box.

SWEEPS OF GOUGES

Regular Sweep. Middle Sweep. Flat Sweep.

Nos. 14 and 15 1/2 Paring Gouges are Made in Three Sweeps as Illustrated Above. Unless Otherwise Specified Regular Sweep will Always be Sent.

TURNING GOUGES
BUCK BROS.

No. 17—Regular

Extra Quality English Cast Steel, Tempered and Polished. The 1 in. Chisel is 10 1/4 in. Over All.

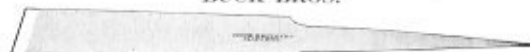
| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, In..... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Wt. Dozen, Lbs. | 1 1/2 | 2 | 3 | 4 | 5 | 5 3/4 |
| Per Dozen | \$11.00 | 11.00 | 12.00 | 13.00 | 15.20 | 17.40 |

| | | | | | |
|-----------------|---------|-------|-------|-------|-------|
| Width, In..... | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Wt. Dozen, Lbs. | 7 | 8 | 10 | 13 | 14 |
| Per Dozen | \$19.60 | 25.40 | 33.00 | 39.00 | 47.80 |

One-half Dozen in a Box.

TURNING CHISELS

BUCK BROS.



No. 16—Regular Double Bevel

Extra Quality English Cast Steel, Tempered and Polished. The 1 in. Chisel is 10 1/4 in. Over All.

| | | | | | |
|-----------------|--------|-------|------|------|------|
| Width, Inches.. | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
| Wt. Dozen, Lbs. | 1 1/4 | 1 1/2 | 2 | 3 | 4 |
| Per Dozen | \$8.00 | 8.00 | 8.00 | 9.00 | 9.80 |

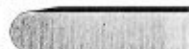
| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Width, Inches.. | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Wt. Dozen, Lbs. | 5 3/4 | 7 | 8 | 10 | 13 | 14 |
| Per Dozen | \$12.20 | 14.20 | 17.80 | 23.00 | 27.60 | 33.00 |

One-half Dozen in a Box.

BUCK BROS. SPECIAL

No. 19 1/2
Sq. Point.

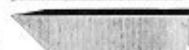
These are the same length and weight as Regular Turning Chisels illustrated above. Always give number when ordering.

No. 19 1/4
Rd. Point.No. 19 3/4
Sp'r. Point.

Width, In... 1/4 1/2
Per Dozen... \$10.40 11.40

No. 19 7/8
Left Skew.

Width, In... 3/4 1
Per Dozen... \$13.60 16.80

No. 19 5/8
Rt. Skew.

Width, In... 1 1/4 1 1/2
Per Dozen... \$20.40 25.40

One-half Dozen in a Box.

TOOTH TURNING CHISELS



For Pattern Makers and Wood Turners

High Grade File Steel, Teeth Cut on 45° Angle.

| | |
|--|---------|
| No. 1R—1 1/2 in. Wide, Right Hand Skew, Weight Per Dozen 15 Lbs..... | \$18.00 |
| No. 1L—1 1/2 in. Wide, Left Hand Skew, Weight Per Dozen 15 Lbs..... | 18.00 |

One-half Dozen in a Box.

WOODWORKERS PARTING TOOLS

BUCK BROS.

No. 18—Cutting Off

Extra Quality English Cast Steel Tempered and Polished.

| | | | |
|---------------------------|---------|-------|-------|
| Width, Inches..... | 1/2 | 5/8 | 3/4 |
| Length, Inches..... | 8 1/2 | 9 | 9 1/2 |
| Weight Per Dozen, Lbs.... | 2 1/2 | 3 1/2 | 4 1/2 |
| Per Dozen..... | \$11.80 | 13.20 | 14.40 |

These Tools have blades about 7 in. long. The blades are thin at edges, with a heavy section down the center.



One-half Dozen in a Box.

WOODTURNERS SIZING TOOLS

BUCK BROS.



Best English Cast Steel Blades

Japanned Steel Frame, Blades Tempered and Polished.

| | |
|---|---------|
| No. 25—4 in. Opening, Weight Per Dozen 15 Lbs.. | \$40.00 |
|---|---------|

One-sixth Dozen in a Box.

CARVING TOOLS

Finest Quality Steel, Hand Forged, Straightened and Tempered

FIRMERS



No. 1—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$5.40 | 5.40 | 5.40 | 5.40 | 6.30 | 7.70 |

STRAIGHT GOUGES



No. 5—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$6.30 | 6.30 | 6.30 | 6.30 | 7.50 | 9.20 |



No. 8—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$6.30 | 6.30 | 6.30 | 6.30 | 7.50 | 9.20 |



No. 10—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$7.20 | 7.20 | 7.20 | 7.20 | 8.40 | 12.80 |

BENT GOUGES



No. 15—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$7.60 | 7.60 | 7.60 | 7.60 | 8.80 | 13.50 |



No. 18—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$8.00 | 8.00 | 8.00 | 8.00 | 9.80 | 15.00 |

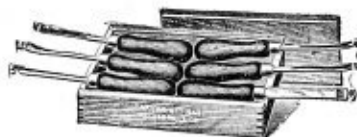
AVERAGE WEIGHTS OF CARVING TOOLS

| | | | | | | |
|----------------------------|-----|-----|-----|-------|-------|---|
| Width, Inches | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Weight Per Dozen, Lbs..... | 3/8 | 1/2 | 3/4 | 1 1/4 | 1 7/8 | 3 |

CARVING TOOL SETS

MILLERS FALLS

Best Quality Forged Steel Blades, Cocobolo Handles, Nickel Plated Ferrules



Per Set

No. 1 Set—Consists of 1 U Tool, 1 Scraper, 1 Beveled Chisel, 1 V Tool, 1 Curved Gouge and 1 Straight Chisel, Length of Tools Over All 5 1/2 in., Put up in a Neat Wooden Box, Weight Per Set 9 Oz...\$2.75



Per Set

No. 2 Set—Consists of 1 V Tool, 1 Beveled Chisel, 1 Curved Gouge, 1 Straight Chisel, 1 U Tool and 1 Straight Gouge, Length of Tools Over All 8 1/2 in., Put up in a Neat Wooden Box, Weight Per Set 16 Oz.....\$3.85

FRONT BENT GOUGES



No. 25—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$8.00 | 8.00 | 8.00 | 8.00 | 9.40 | 13.50 |



No. 28—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$8.00 | 8.00 | 8.00 | 8.00 | 9.40 | 13.50 |



No. 30—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$8.00 | 8.00 | 8.00 | 8.00 | 9.80 | 15.00 |

PARTING TOOLS



No. 39—Forged Steel

| | | | | | | |
|------------------|--------|------|------|------|-------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$9.50 | 9.50 | 9.50 | 9.50 | 15.00 | 24.00 |



No. 40—Forged Steel

| | | | | | | |
|------------------|---------|-------|-------|-------|-------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$10.60 | 10.60 | 10.60 | 10.60 | 16.50 | 26.00 |



No. 44—Forged Steel

| | | | | | | |
|------------------|---------|-------|-------|-------|-------|-------|
| Width, Inches... | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
| Per Dozen..... | \$11.00 | 11.00 | 11.00 | 11.00 | 17.00 | 27.00 |



Per Set

No. 3 Set—Consists of 1 U Tool, 1 Veining Tool, 1 Narrow Bevel Chisel, 1 Narrow Chisel, 1 Small Circular Gouge, 1 Small Flat Gouge, 1 Bent Chisel, 1 V Tool, 1 Curved Gouge, 1 Large Circular Gouge, 1 Large Flat Gouge, 1 Wide Chisel and 1 Matting Tool, in Hinged Hardwood Box...\$13.50

CHISEL HANDLES**SOCKET FIRMER**

Hickory, Leather Tipped

Per Dozen
No. 131—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 Lbs. \$1.75
One Dozen in a Box.



Hickory, Malleable Iron Ring

Per Dozen
No. 31R—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 $\frac{1}{2}$ Lbs. \$1.75
One Dozen in a Box.



Hickory, Plain

Per Dozen
No. 31—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 Lbs. \$1.00
One Dozen in a Box.

BUCK BROS. SOCKET FIRMER

Applewood, Polished

Per Dozen
No. 95—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 $\frac{1}{2}$ Lbs. \$2.00
One Dozen in a Box.

SOCKET FRAMING

Hickory, Malleable Iron Ring

Per Dozen
No. 51—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 $\frac{1}{2}$ Lbs. \$1.75
One Dozen in a Box.



Hickory, Leather Tipped

Per Dozen
No. 151—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 $\frac{1}{2}$ Lbs. \$1.75

SOCKET BUTT

Hickory, Leather Tipped

Per Dozen
No. 131B—Assorted for 1 to 2
in. Chisels, Weight Per
Dozen 1 $\frac{1}{2}$ Lbs. \$1.75
One Dozen in a Box.

CHISEL HANDLES**TANG FIRMER**

Hickory, Leather Tipped, Brass

Ferrule Per Dozen
No. 111—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 Lbs. \$1.75



Hickory, Plain

Per Dozen
No. 11—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 Lbs. \$1.00

BUCK BROS. TANG FIRMER

Applewood, Polished, Brass Ferrule

Per Dozen
No. 93—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 Lbs. \$3.50



Polished Maple, Heavy Brass Ferrule

Per Dozen
No. 92—Assorted for $\frac{1}{4}$ to 2
in. Chisels, Weight Per
Dozen 2 Lbs. \$2.40

TANG BUTT

Hickory, Leather Tipped, Brass

Ferrule Per Dozen
No. 111B—Assorted for 1 to 2
in. Chisels, Weight Per
Dozen 1 $\frac{1}{2}$ Lbs. \$1.75

BUCK BROS. TANG BUTT

Applewood, Polished, Brass Ferrule

Per Dozen
No. 4B—Assorted for 1 to 2 in.
Chisels, Weight Per Dozen
1 $\frac{1}{2}$ Lbs. \$3.50

CARVING TOOL HANDLES

Polished Maple,

Brass Ferrule

Per Dozen
No. 65—Assorted Sizes, Weight
Per Dozen 1 Lb. \$1.00
All Above, One Dozen in a Box.

TURNING TOOL HANDLES

Polished Maple, Heavy Brass Ferrule

Per Dozen
No. 99—9 to 10 in. Long, As-
sorted for $\frac{1}{4}$ to 2 in. Turn-
ing Tools, Weight Per Doz-
en 4 Lbs. \$5.00
Open Stock.

FILE HANDLES

Soft Wood, Polished Steel Ferrules

| Nos. | 1C | 3C | 5C |
|---------------------|-----------------|-----------------|-----------------|
| Length, Inches... | 4 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 5 |
| Diameter, Inches... | 1 $\frac{1}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |
| Wt. Dozen, Lbs... | 1 | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ |
| Per Dozen | \$0.30 | .40 | .60 |

Open Stock.

LUTZ

Long Ferrule, Will Not Split

Smooth Selected Birchwood, Heavy Polished Steel Ferrule.

| Nos. | 1L | 2L | 3L |
|-------------------|-----------------|-----------------|-----------------|
| Length, Inches... | 4 $\frac{1}{4}$ | 4 $\frac{3}{4}$ | 4 $\frac{7}{8}$ |
| For Files, In... | 3 to 6 | 6 to 8 | 8 to 12 |
| Wt. Dozen, Lbs. | 1 $\frac{1}{2}$ | 2 | 3 |
| Per Dozen | \$0.75 | .85 | 1.00 |

| Nos. | 4L | 5L |
|----------------------|-----------------|-----------------|
| Length, Inches... | 5 $\frac{1}{4}$ | 5 $\frac{3}{4}$ |
| For Files, Inches... | 12 to 16 | 16 to 20 |
| Weight Dozen, Lbs... | 4 | 5 |
| Per Dozen | \$1.25 | 1.50 |

One Dozen in a Box.

SHUR-GRIP

Screws on to Tang of File

Cuts its own thread. Selected Hardwood, Pressed Steel Ferrule.

| Nos. | 2G | 3G | 4G | 5G |
|---------------|-----------------|-----------------|-----------------|-----------------|
| Length, In. | 4 | 4 $\frac{1}{2}$ | 5 | 5 $\frac{1}{2}$ |
| For File, In. | 4-8 | 8-10 | 10-14 | 14-18 |
| Wt. Dz., Lbs. | 1 $\frac{1}{2}$ | 2 | 2 $\frac{1}{2}$ | 3 |
| Per Dozen | \$2.00 | 2.00 | 2.50 | 3.00 |

One Dozen in a Box.

NICHOLSON

Spun Brass Ferrules

Birchwood, Carefully Smoothed and Varnished.

| Nos. | 0N | 1N | 2N |
|-------------------|-----------------|-----------------|-----------------|
| Length, Inches... | 5 $\frac{1}{8}$ | 5 $\frac{1}{4}$ | 4 $\frac{3}{4}$ |
| For Files, Inches | 14 | 12 | 10 |
| Wt. Dozen, Lbs. | 4 | 3 $\frac{1}{2}$ | 3 |
| Per Dozen | \$2.50 | 2.25 | 2.00 |

| Nos. | 3N | 4N |
|----------------------|-----------------|------|
| Length, Inches... | 4 $\frac{3}{4}$ | 4 |
| For Files, Inches... | 8 | 6 |
| Wt. Dozen, Lbs... | 2 $\frac{1}{2}$ | 2 |
| Per Dozen | \$1.60 | 1.30 |

One Dozen in a Box.

STEARNS

Japanned Iron, Adjustable, with Steel Set Screw, holds Files to 12 in.

Per Dozen
No. 58—5 in. Long, Weight Per
Dozen 3 $\frac{1}{2}$ Lbs. \$2.00
One Dozen in a Box.

HANDLES**ADZE EYE HAMMER****Peerless**

High Grade Selected Second Growth White Hickory.

| | | |
|--------------------|--------|------|
| Length, Inches | 12 | 14 |
| Weight Dozen, Lbs. | 4 | 5 |
| Per Dozen | \$2.60 | 2.60 |

Beauty

Medium Grade Second Growth Hickory.

| | | |
|--------------------|--------|------|
| Length, Inches | 12 | 14 |
| Weight Dozen, Lbs. | 4 | 5 |
| Per Dozen | \$1.90 | 1.90 |

XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | | |
|--------------------|--------|-------|
| Length, Inches | 14 | 18 |
| Weight Dozen, Lbs. | 5 1/2 | 6 1/2 |
| Per Dozen | \$1.90 | 1.90 |

One Dozen in a Box.

MACHINISTS HAMMER**Peerless**

High Grade Selected Second Growth White Hickory.

| | | | | |
|--------------------|--------|-------|------|-------|
| Length, Inches | 12 | 14 | 16 | 18 |
| Weight Dozen, Lbs. | 3 | 3 1/2 | 4 | 4 1/2 |
| Per Dozen | \$2.60 | 2.60 | 2.95 | 3.25 |

Beauty

| | | | |
|----------------|--------|------|------|
| Length, Inches | 14 | 16 | 18 |
| Per Dozen | \$1.90 | 2.05 | 2.30 |

XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | | |
|--------------------|--------|------|
| Length, Inches | 16 | 18 |
| Weight Dozen, Lbs. | 4 1/2 | 5 |
| Per Dozen | \$2.00 | 2.00 |

No. 1 Oak

Select Straight Grained Timber.

| | | |
|--------------------|--------|------|
| Length, Inches | 16 | 18 |
| Weight Dozen, Lbs. | 4 1/2 | 5 |
| Per Dozen | \$1.40 | 1.40 |

One Dozen in a Box.

RIVETING HAMMER**Peerless**

High Grade Selected Second Growth White Hickory.

| | | |
|--------------------|--------|------|
| Length, Inches | 12 | 14 |
| Weight Dozen, Lbs. | 2 1/2 | 3 |
| Per Dozen | \$2.60 | 2.60 |

XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | | |
|--------------------|--------|-------|
| Length, Inches | 12 | 14 |
| Weight Dozen, Lbs. | 3 | 3 1/2 |
| Per Dozen | \$1.90 | 1.90 |

No. 1 Oak

Select Straight Grained Timber.

| | | |
|--------------------|--------|-------|
| Length, Inches | 12 | 14 |
| Weight Dozen, Lbs. | 3 | 3 1/2 |
| Per Dozen | \$1.35 | 1.35 |

One Dozen in a Box.

BRICKLAYERS HAMMER**Peerless**

High Grade Selected Second Growth White Hickory.

| | | |
|--------------------|--------|----|
| Length, Inches | 12 | 14 |
| Weight Dozen, Lbs. | 4 1/2 | 5 |
| Per Dozen | \$2.60 | |

One Dozen in a Box.

HANDLES**BLACKSMITHS HAMMER****Peerless**

High Grade Selected Second Growth White Hickory.

| | | | | | | |
|-----------------|--------|------|------|------|------|------|
| Length, Inches | 14 | 16 | 18 | 20 | 22 | 24 |
| Wt. Dozen, Lbs. | 4 | 5 | 6 | 7 | 8 | 9 |
| Per Dozen | \$2.60 | 2.95 | 3.25 | 3.70 | 4.05 | 4.60 |

One Dozen in a Crate.

XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | | |
|--------------------|--------|-------|
| Length, Inches | 16 | 18 |
| Weight Dozen, Lbs. | 5 1/2 | 6 1/2 |
| Per Dozen | \$2.00 | 2.00 |

No. 1 Oak

Select Straight Grained Timber.

| | | |
|--------------------|--------|-------|
| Length, Inches | 16 | 18 |
| Weight Dozen, Lbs. | 5 1/2 | 6 1/2 |
| Per Dozen | \$1.40 | 1.40 |

One Dozen in a Box.

REGULAR HATCHET**Peerless**

High Grade Selected Second Growth White Hickory.

| | | | |
|--------------------|--------|------|-------|
| Length, Inches | 12 | 14 | 15 |
| Weight Dozen, Lbs. | 5 | 6 | 6 1/2 |
| Per Dozen | \$2.60 | 2.60 | 2.60 |

Beauty

Medium Grade Second Growth Hickory.

| | | | |
|----------------|--------|------|------|
| Length, Inches | 12 | 14 | 15 |
| Per Dozen | \$1.90 | 1.90 | 1.90 |

XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | | |
|--------------------|--------|-------|
| Length, Inches | 14 | 18 |
| Weight Dozen, Lbs. | 6 1/2 | 6 1/2 |
| Per Dozen | \$1.90 | |

No. 1 Oak

Select Straight Grained Timber.

| | | |
|--------------------|--------|-------|
| Length, Inches | 14 | 18 |
| Weight Dozen, Lbs. | 6 1/2 | 6 1/2 |
| Per Dozen | \$1.35 | |

One Dozen in a Box.

LATHING HATCHET**Peerless**

High Grade Selected Second Growth White Hickory.

| | | |
|--------------------|--------|----|
| Length, Inches | 12 | 14 |
| Weight Dozen, Lbs. | 3 | 3 |
| Per Dozen | \$2.60 | |

One Dozen in a Box.

BROAD HATCHET**Peerless**

High Grade Selected Second Growth White Hickory.

| | | |
|--------------------|--------|----|
| Length, Inches | 18 | 24 |
| Weight Dozen, Lbs. | 7 | 12 |
| Per Dozen | \$3.60 | |

One Dozen in a Box.

BOYS AXE**Triumph**

High Grade Selected Second Growth White Hickory.

| | | |
|--------------------|--------|----|
| Length, Inches | 28 | 36 |
| Weight Dozen, Lbs. | 12 | 12 |
| Per Dozen | \$8.00 | |

Two Dozen in a Crate.

HANDLES

BENT SINGLE BIT AXE



Triumph

High Grade Selected Second Growth White Hickory.

| | |
|------------------------|--------|
| Length, Inches | 36 |
| Weight Per Dozen, Lbs. | 22 |
| Per Dozen | \$9.80 |



XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | |
|------------------------|--------|
| Length, Inches | 36 |
| Weight Per Dozen, Lbs. | 24 |
| Per Dozen | \$6.20 |

No. 1 Oak

Select Straight Grained Timber.

| | |
|------------------------|--------|
| Length, Inches | 36 |
| Weight Per Dozen, Lbs. | 22 |
| Per Dozen | \$4.00 |

Two Dozen in a Crate.

STRAIGHT SINGLE BIT AXE



Triumph

High Grade Selected Second Growth White Hickory.

| | |
|------------------------|--------|
| Length, Inches | 36 |
| Weight Per Dozen, Lbs. | 22 |
| Per Dozen | \$9.80 |

Two Dozen in a Crate.

DOUBLE BIT AXE



Triumph

High Grade Selected Second Growth White Hickory.

| | |
|------------------------|--------|
| Length, Inches | 36 |
| Weight Per Dozen, Lbs. | 22 |
| Per Dozen | \$9.80 |

Two Dozen in a Crate.



XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | |
|------------------------|--------|
| Length, Inches | 36 |
| Weight Per Dozen, Lbs. | 24 |
| Per Dozen | \$6.20 |

No. 1 Oak

Select Straight Grained Timber.

| | |
|------------------------|--------|
| Length, Inches | 36 |
| Weight Per Dozen, Lbs. | 22 |
| Per Dozen | \$4.00 |

Two Dozen in a Crate.

CARPENTERS ADZE



Triumph

High Grade Selected Second Growth White Hickory.

| | |
|------------------------|---------|
| Length, Inches | 34 |
| Weight Per Dozen, Lbs. | 19 |
| Per Dozen | \$10.50 |

Two Dozen in a Crate.

HANDLES

SLEDGE



Hercules

Selected Second Growth White Hickory.

| | | | | |
|--------------------|--------|------|------|------|
| Length, Inches | 24 | 30 | 32 | 36 |
| Weight Dozen, Lbs. | 14 | 16 | 18 | 22 |
| Per Dozen | \$5.30 | 6.50 | 6.50 | 7.50 |

XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | | | | |
|--------------------|--------|------|------|------|
| Length, Inches | 30 | 32 | 34 | 36 |
| Weight Dozen, Lbs. | 18 | 20 | 22 | 24 |
| Per Dozen | \$5.00 | 5.00 | 5.00 | 5.00 |

No. 1 Oak

Selected Straight Grained Timber.

| | | | | |
|--------------------|--------|------|------|------|
| Length, Inches | 30 | 32 | 34 | 36 |
| Weight Dozen, Lbs. | 17 | 19 | 21 | 23 |
| Per Dozen | \$3.50 | 3.50 | 3.50 | 3.50 |

Two Dozen in a Crate.

PICK OR MATTOCK



Triumph

High Grade Selected Second Growth White Hickory.

| | |
|--------------------|---------|
| Length, Inches | 36 |
| Weight Dozen, Lbs. | 30 |
| Per Dozen | \$12.30 |

XXX Blue Oak

Choice Selected Slow Growth Swamp Oak.

| | |
|--------------------|--------|
| Length, Inches | 36 |
| Weight Dozen, Lbs. | 32 |
| Per Dozen | \$8.00 |

No. 1 Oak

Select Straight Grained Timber.

| | |
|--------------------|--------|
| Length, Inches | 36 |
| Weight Dozen, Lbs. | 31 |
| Per Dozen | \$4.50 |

Two Dozen in a Crate.

COAL PICK



Triumph

High Grade Selected Second Growth White Hickory.

| | |
|--------------------|--------|
| Length, Inches | 34 |
| Weight Dozen, Lbs. | 23 |
| Per Dozen | \$9.80 |

XXX Blue Oak

Choice Selected Slow Growth Swamp Hickory.

| | |
|--------------------|--------|
| Length, Inches | 34 |
| Weight Dozen, Lbs. | 24 |
| Per Dozen | \$6.00 |

No. 1 Oak

Select Straight Grained Timber.

| | |
|--------------------|--------|
| Length, Inches | 34 |
| Weight Dozen, Lbs. | 23 |
| Per Dozen | \$4.00 |

Two Dozen in a Crate.

POST MAUL



XXX Blue Oak

Choice Selected Slow Growth Swamp Hickory.

| | |
|--------------------|--------|
| Length, Inches | 36 |
| Weight Dozen, Lbs. | 20 |
| Per Dozen | \$6.00 |

Two Dozen in a Crate.

AXES

DREADNAUGHT SINGLE BIT, UNHANDLED

Dayton Pattern



Forged Steel, Warranted, Black Rustless Finish.

No. 10—Assorted Weights $3\frac{1}{2}$ to $4\frac{1}{2}$ Lbs. \$26.00

These axes are forged from one solid piece of steel. The bit remains hard after repeated grinding. The head is hardened to a spring temper.

One Dozen in a Box.

AUTOGRAF SINGLE BIT, HANDLED



Dayton Pattern

Forged Steel, Warranted, Black Rustless Finish, Deep Etched, Gold Filled Selected Hickory Handles.

No. 20—Assorted Weights $3\frac{1}{2}$ to $4\frac{1}{2}$ Lbs., with 36 in. Handles \$39.00

No. 21—Assorted Weights 4 to 5 Lbs., with 36 in. Handles 42.00

One-half Dozen in a Crate.

DREADNAUGHT SINGLE BIT, HANDLED



Dayton Pattern

Forged Steel, Warranted, Black Rustless Finish, Mahogany Selected Hickory Handles.

No. 30—Assorted Weights $3\frac{1}{2}$ to $4\frac{1}{2}$ Lbs., with 36 in. Handles \$34.00

No. 31—Assorted Weights 4 to 5 Lbs., with 36 in. Handles 37.00

One-half Dozen in a Crate.

DREADNAUGHT DOUBLE BIT, HANDLED



Western Pattern

Forged Steel, Warranted, Black Rustless Finish, Mahogany Selected Hickory Handles.

No. 70—Assorted Weights $3\frac{1}{2}$ to $4\frac{1}{2}$ Lbs., with 36 in. Handles \$42.00

No. 71—Assorted Weights 4 to 5 Lbs., with 36 in. Handles 45.00

One-half Dozen in a Crate.

Note—Weights of Handled Axes Do Not Include Handles.

DREADNAUGHT DOUBLE BIT UNHANDLED

Western Pattern



Forged Steel, Warranted, Black Rustless Finish.

No. 60—Assorted Weights $3\frac{1}{2}$ to $4\frac{1}{2}$ Lbs. \$34.00

These axes are forged from one solid piece of steel. The bit remains hard after repeated grinding. The head is hardened to a special temper.

One Dozen in a Box.

MAGIC CITY MINERS



Dayton Pattern

Forged Steel, Blue Finish, Polished Bit, Standard Hickory Handles.

No. 48—Assorted Weights $3\frac{1}{2}$ to $4\frac{1}{2}$ Lbs., with 36 in. Straight Handles \$25.50

One-half Dozen in a Crate.

KELLY RAFTING



Flint Edge Brand

Hardened Poll, Hand Tempered, Chemical Black Finish, Cutting Edge Honed.

No. 80—5 Lb., without Handle \$38.50

One Dozen in a Box.

KELLY FIREMENS



Hardened Pick Point

Hand Tempered Polished Blade, Poll Painted Red, Hickory Handle Painted Red.

No. 129—Assorted 4 to 5 Lbs., 36 in. Handles \$50.00

One-half Dozen in a Crate.

BOYS HANDLED AXES



Standard Pattern

Forged Steel, Blue Finish, Polished Bit, Regular Hickory Handles.

No. 2—Weight Each $2\frac{1}{4}$ Lbs., 28 in. Handle, Wt. Per Dozen
 Per Dozen 42 Lbs. \$18.00
 One-half Dozen in a Crate.

HOUSE AXES

PLUMB



Mahogany Handles

Hand Forged from One-Piece Special Analysis Steel, Armor Plate Heat Treated, Fine Keen Cutting Edge, Non-Rust Dull Black Finish.

No. HF665— $2\frac{1}{4}$ Lbs., Handled with 19 in. Hickory Handles Per Dozen
 \$19.50
 One-half Dozen in a Box.

BOY SCOUT AXES

PLUMB



The Official Axe of the Boy Scouts Per Dozen

No. 680—Boy Scout, Special Axe Steel, Hand Forged, Non-Rusting Finish with Nail Slot, Axe Pattern Hickory Handle, Weight with Handle, 1 Lb. 10 Oz., the Handiest Tool in a Woodman's Kit, without Sheath \$18.00

No. 682—Same as No. 680, but with Heavy Russet Leather Sheath 23.00
 One-half Dozen in a Box.

BROAD AXES

PLUMB



Pennsylvania Pattern

Forged Steel, Non-Rusting Finish Per Dozen

No. 692—12 in. Blade, Weight Each 7 Lbs. \$65.00
 One-half Dozen in a Case.

CARPENTERS ADZES

PLUMB

Half Head

Made of One Piece of Special Analysis Steel, Subjected to the Armor Plate Heat Treatment, making a Keen Fine Edge, Hard yet Tough.

Each

No. 740—4 in. Cut, Average Weight
 Each 4 Lbs. \$3.00

Twelve in a Box.



RAILROAD ADZES

PLUMB

Full Head

Made of One Piece of Special Analysis Steel Subjected to the Armor Plate Heat Treatment, Making a Keen Fine Edge, Hard yet Tough.

Each

No. 770—5 in. Cut, Weight Each
 5 Lbs. \$3.00

These adzes being made of one piece of steel can be reground until practically worn out.

Twelve in a Box.



SHIP CARPENTERS ADZES

PLUMB

Spur Head

Hand Forged, Black Non-Rusting Finish, Made of One Piece of Special Analysis Steel, Subjected to the Armor Plate Heat Treatment Making a Keen Fine Edge, Hard Yet Tough.

Each

No. 780—Assorted 4 and $4\frac{1}{2}$ in. Width of Blade \$3.50

These adzes are made true to pattern, absolutely uniform, with perfect eye, head and bit.

Twelve in a Box.



BROAD HATCHETS

PLUMB BROAD



The Advertised Finish

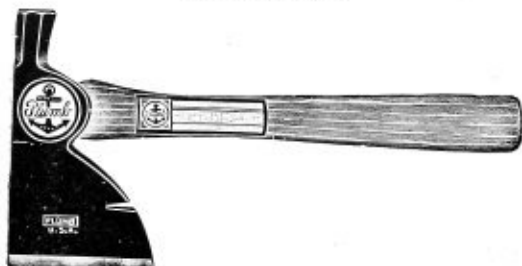
Special Analysis Forged Steel, Black Finish, Mahogany Hickory Handle, Patent Take-Up Handle Wedge.

| Nos. | 2991 | 2992 | 2993 | 2994 | 2995 |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| Size | 1 | 2 | 3 | 4 | 5 |
| Cut, Inches | 4 | $4\frac{1}{2}$ | 5 | $5\frac{1}{2}$ | 6 |
| Weight Each, Lbs. | $1\frac{1}{2}$ | $1\frac{3}{4}$ | $2\frac{1}{8}$ | $2\frac{1}{2}$ | $2\frac{7}{8}$ |
| Wt. Dozen, Lbs. | 27 | 33 | 40 | 42 | 44 |
| Per Dozen | \$22.00 | 25.20 | 28.40 | 31.60 | 34.80 |

One-half Dozen in a Box.

HATCHETS

PLUMB HALF



The Advertised Finish

Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge.

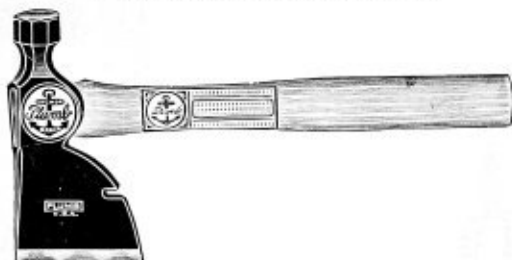
| Nos. | 2961 | 2962 | 2963 |
|--------------------|---------|-------------|--------------|
| Size | 1 | 2 | 3 |
| Bit, Inches | 3 1/4 | 3 5/8 | 4 |
| Weight Each | 15 oz. | 1 lb. 5 oz. | 1 lb. 11 oz. |
| Weight Dozen, Lbs. | 16 | 20 | 24 |
| Per Dozen | \$19.00 | 20.00 | 22.00 |

With Checkered Heads

| Nos. | CH2961 | CH2962 |
|-----------|---------|--------|
| Size | 1 | 2 |
| Per Dozen | \$20.00 | 21.00 |

One-half Dozen in a Box.

PLUMB OCTAGON POLL HALF



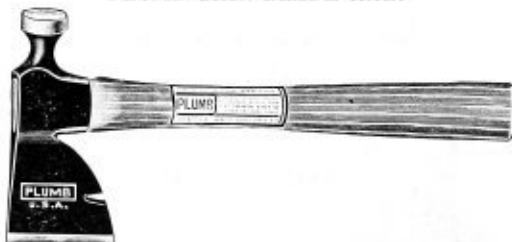
The Advertised Finish

Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge.

| No. | HF2291 |
|--------------------|-------------|
| Size | 2 |
| Bit, Inches | 3 3/8 |
| Weight, Each | 1 lb. 6 oz. |
| Weight Dozen, Lbs. | 21 |
| Per Dozen | \$24.00 |

One-half Dozen in a Box.

PLUMB THIN BLADE HALF



The Advertised Finish

Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge.

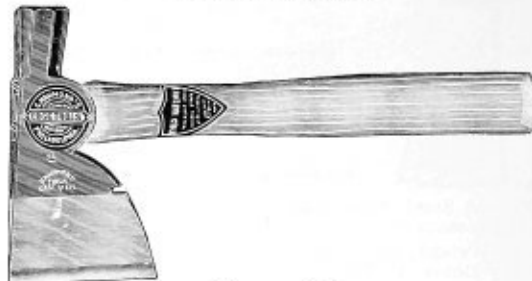
| Nos. | HF530 | HF531 |
|--------------------|---------|-------------|
| Size | 1 | 2 |
| Bit, Inches | 3 1/4 | 3 5/8 |
| Weight, Each | 14 oz. | 1 lb. 2 oz. |
| Weight Dozen, Lbs. | 15 1/2 | 18 |
| Per Dozen | \$28.40 | 29.40 |

Light in weight and well balanced. Thin blade for fast cutting, large full face for driving. Special heat treatment toughens the blade beneath eye.

One-half Dozen in a Box.

HATCHETS

HAMMOND HALF



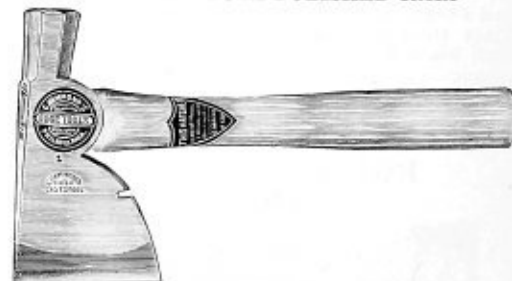
Octagon Poll

Swedish Iron Body, Tool Steel Head and Inserted Tool Steel Bit, Copper Bronzed Finish, Polished Bit and Face, Selected Hickory Handle.

| Nos. | 30 | 31 | 32 | 33 |
|--------------------|-------------|-------------|--------------|--------|
| Size | 1 | 2 | 3 | 4 |
| Bit, Inches | 3 1/4 | 3 1/2 | 3 3/4 | 4 |
| Weight Each | 1 lb. 4 oz. | 1 lb. 8 oz. | 1 lb. 12 oz. | 2 lbs. |
| Weight Dozen, Lbs. | 16 | 20 | 24 | 28 |
| Per Dozen | \$17.00 | 18.00 | 19.00 | 21.00 |

One-half Dozen in a Box.

HAMMOND FULL POLISHED HALF



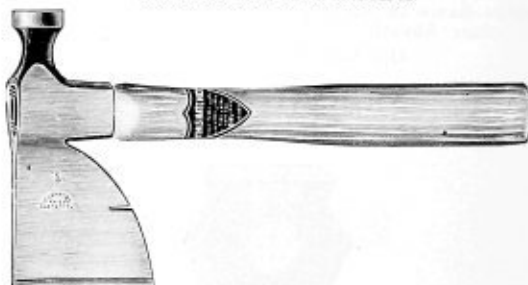
Octagon Poll

Swedish Iron Body, Tool Steel Head and Inserted Tool Steel Bit, Full Polished, Selected Hickory Handle.

| Nos. | 40 | 41 |
|--------------------|-------------|-------------|
| Size | 1 | 2 |
| Bit, Inches | 3 1/4 | 3 1/2 |
| Weight Each | 1 lb. 4 oz. | 1 lb. 8 oz. |
| Weight Dozen, Lbs. | 16 | 20 |
| Per Dozen | \$22.00 | 23.00 |

One-half Dozen in a Box.

HAMMOND THIN BLADE



Adze Eye, Bell Poll

Solid Crucible Steel, Full Polished, Extra White Hickory Handle.

| No. | 46 |
|--------------------|-------------|
| Size | 2 |
| Bit, Inches | 3 |
| Weight Each | 1 lb. 4 oz. |
| Weight Dozen, Lbs. | 16 |
| Per Dozen | \$28.00 |

One-half Dozen in a Box.

Note—Weights Each Do Not Include Handles.

HATCHETS



G-T-W MASTER BUILDER HALF

"The Best That Money Can Buy"

Thin Bit, Plain Eye, Bell Face

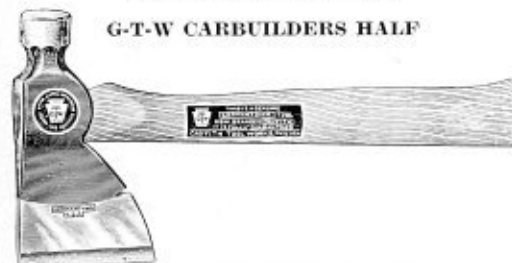
Warranted Solid Tool Steel, Polished, Selected Hickory Octagon Handle.

| | |
|-----------------------------|---------|
| No. | 320 |
| Size | 2 |
| Cut, Inches | 3 1/2 |
| Weight Each, Lbs. | 1 1/2 |
| Weight Per Dozen, Lbs. | 24 |
| Per Dozen | \$30.00 |

The Octagon Handle insures a better grip and prevents the tool from turning in the hand.

It will drive as well as a nail hammer and cut easily. The thin bit gives the tool an even balance.

One-half Dozen in a Box.



G-T-W CARBUILDERS HALF

Octagon Neck, Round Poll

Warranted Solid Tool Steel, Fire Bronze Finish, Polished Bit and Poll, Selected Hickory Special Shaped Handle.

| | | | |
|-----------------------------|---------|-------|---------|
| Nos. | 317 1/2 | 318 | 318 1/2 |
| Size | 1 | 2 | 3 |
| Cut, Inches | 3 1/4 | 3 1/2 | 3 3/4 |
| Weight Each, Lbs. | 1 1/4 | 1 1/2 | 1 3/4 |
| Weight Per Dozen, Lbs. | 20 | 24 | 28 |
| Per Dozen | \$22.50 | 24.00 | 26.00 |

With Scored Head

| | | | |
|-----------------|----------|-------|----------|
| Nos. | 0317 1/2 | 0318 | 0318 1/2 |
| Size | 1 | 2 | 3 |
| Per Dozen | \$24.00 | 26.00 | 27.50 |

This style of hatchet is used extensively in car shops and is particularly adapted for this class of work.

One-half Dozen in a Box.



G-T-W THIN HALF

Thin Bit, Adze Eye, Bell Face

Warranted Solid Tool Steel, Polished, Selected Hickory Handle.

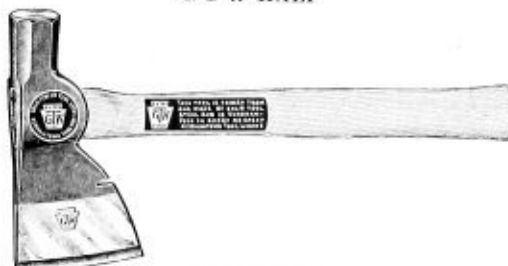
| | |
|-----------------------------|---------|
| No. | 316 |
| Size | 2 |
| Cut, Inches | 3 1/4 |
| Weight Each, Lbs. | 1 1/4 |
| Weight Per Dozen, Lbs. | 20 |
| Per Dozen | \$30.00 |

One-half Dozen in a Box.

Note—Weights Each do Not Include Handles.

HATCHETS

G-T-W HALF



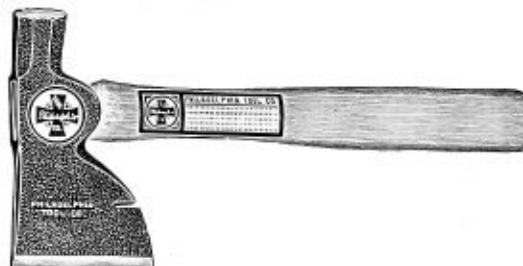
Octagon Poll

Solid Forged Tool Steel, Bronzed Finish, Polished Bit and Face, Selected Hickory Handle.

| | | | |
|-----------------------------|---------|-------|-------|
| Nos. | 336 | 338 | 340 |
| Size | 1 | 2 | 3 |
| Cut, Inches | 3 1/4 | 3 1/2 | 3 3/4 |
| Weight Each, Lbs. | 1 1/4 | 1 1/2 | 1 3/4 |
| Weight Per Dozen, Lbs. | 20 | 24 | 28 |
| Per Dozen | \$18.90 | 20.00 | 21.00 |

One-half Dozen in a Box.

PHILADELPHIA HALF



Octagon Poll

Solid Steel, Forge Finish, Oiled Handles.

| | | |
|-------------------------|------------|-------------|
| Nos. | P. T. H. 1 | P. T. H. 2 |
| Size | 1 | 2 |
| Cut, Inches | 3 1/4 | 3 3/4 |
| Weight Each | 15 oz. | 1 lb. 5 oz. |
| Weight Dozen, Lbs. | 18 | 22 |
| Per Dozen | \$11.60 | 12.60 |

One-half Dozen in a Box.

UNION HALF



Octagon Poll

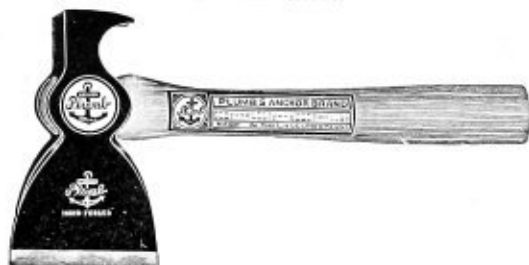
Forged Steel, Black Forge Finish, Walnut Stained Handles.

| | |
|-------------------------|-------------|
| No. | 202 |
| Size | 2 |
| Cut, Inches | 3 3/4 |
| Weight Each | 1 lb. 6 oz. |
| Weight Dozen, Lbs. | 23 |
| Per Dozen | \$9.00 |

One-half Dozen in a Box.

HATCHETS

PLUMB CLAW



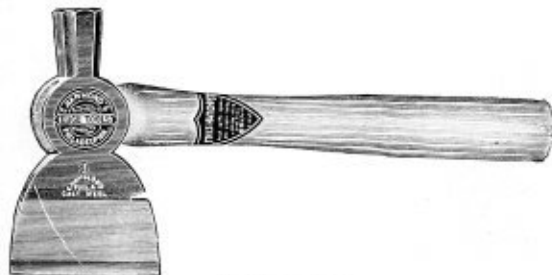
The Advertised Finish

Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge.

| | |
|------------------------|-------------|
| Nos. | 2972 |
| Size | 2 |
| Bit, Inches | 4 |
| Weight Each | 1 lb. 9 oz. |
| Weight Per Dozen, Lbs. | 23 |
| Per Dozen | \$22.00 |

One-half Dozen in a Box.

HAMMOND SHINGLING



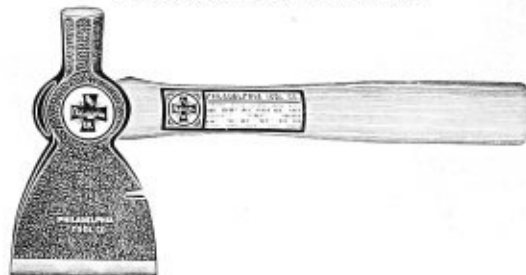
Octagon Poll

Swedish Iron Body, Tool Steel Head and Inserted Tool Steel Bit, Copper Bronze Finish, Polished Bit and Face, Selected Hickory Handle.

| Nos. | 11 | 12 | 13 |
|--------------------|-------------|--------------|-------|
| Size | 2 | 3 | 4 |
| Bit, Inches | 3 3/4 | 4 | 4 1/4 |
| Weight Each | 1 lb. 8 oz. | 1 lb. 12 oz. | 2 lb. |
| Weight Dozen, Lbs. | 20 | 24 | 28 |
| Per Dozen | \$17.00 | 18.00 | 20.00 |

One-half Dozen in a Box.

PHILADELPHIA SHINGLING



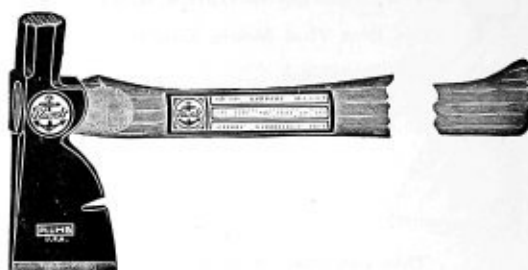
Solid Steel, Forge Finish, Oiled Handles

| No. | P. H. S. 2 |
|--------------------|-------------|
| Size | 2 |
| Bit, Inches | 4 |
| Weight Each | 1 lb. 7 oz. |
| Weight Dozen, Lbs. | 27 |
| Per Dozen | \$11.60 |

One-half Dozen in a Box.

HATCHETS

PLUMB RIG BUILDERS



The Advertised Finish

Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge, Handle 18 in. Long.

| | |
|--------------------|---------|
| No. | 582 |
| Size | 3 |
| Length, Inches | 7 1/2 |
| Bit, Inches | 3 |
| Weight Each | 2 lbs. |
| Weight Dozen, Lbs. | 38 |
| Per Dozen | \$28.00 |

Knob End Handle prevents slipping. Back of eye flattened to help start nail.

One-half Dozen in a Box.

PHILADELPHIA LATHING

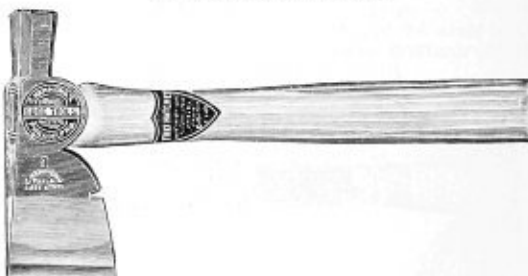


Solid Steel, Forge Finish, Oiled Handles

| Nos. | P. T. L. 1 | P. T. L. 2 |
|--------------------|------------|-------------|
| Size | 1 | 2 |
| Bit, Inches | 2 1/4 | 2 1/2 |
| Weight Each | 14 oz. | 1 lb. 1 oz. |
| Weight Dozen, Lbs. | 17 1/2 | 20 |
| Per Dozen | \$10.50 | 11.60 |

One-half Dozen in a Box.

HAMMOND LATHING



Octagon Poll

Swedish Iron Body, Tool Steel Head and Inserted Tool Steel Bit, Copper Bronze Finish, Polished Bit, Selected Hickory Handle.

| Nos. | 70 | 71 | 72 |
|--------------------|---------|-------|-------------|
| Size | 1 | 2 | 3 |
| Bit, Inches | 2 1/2 | 2 3/4 | 3 |
| Weight Each | 12 oz. | 1 lb. | 1 lb. 4 oz. |
| Weight Dozen, Lbs. | 16 | 19 | 23 |
| Per Dozen | \$17.00 | 18.00 | 19.00 |

One-half Dozen in a Box.

Note—Weights Each Do Not Include Handles.

HATCHETS

PLUMB LATHING



The Advertised Finish

Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-Up Handle Wedge.

| | | |
|-----------------------------|---------|-------------|
| Nos. | 2981 | 2982 |
| Size | 1 | 2 |
| Bit, Inches | 2 1/4 | 2 1/2 |
| Weight Each | 14 oz. | 1 lb. 1 oz. |
| Weight Per Dozen, Lbs. | 17 | 18 |
| Per Dozen | \$19.00 | 20.00 |

One-half Dozen in a Box.

PLUMB FANCY PATTERN LATHING



The Advertised Finish

Underhill Pattern

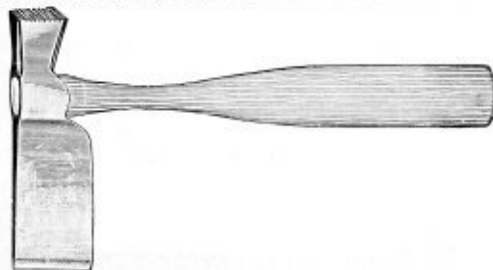
Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-Up Handle Wedge.

| | | |
|-----------------------------|---------|--------|
| Nos. | HF1961 | HF1962 |
| Head Checkered, Rows | 9 | 10 |
| Weight Each, Oz. | 15 | 15 |
| Weight Per Dozen, Lbs. | 18 | 20 |
| Per Dozen | \$31.50 | 32.50 |

Light in weight and well balanced. Thin blade for fast cutting, large full face for driving. Special heat treatment toughens blade beneath the eye, will not bend or break.

One-half Dozen in a Box.

UNDERHILL BROS. GENUINE STAR BOSTON LATHING



Hand Made

Best Tool Steel, Charcoal Tempered, Full Polished.

Chicago Pattern

| | |
|--|-----------|
| No. B—2 1/2 in. Bit, Weight Each with Handle 19 Oz. | Per Dozen |
| ..... | \$39.75 |

Most popular pattern.

St. Louis Pattern

| | |
|---|-----------|
| No. BS—2 1/2 in. Bit, Weight Each with Handle 23 Oz. | Per Dozen |
| ..... | \$41.25 |

One-half Dozen in a Box.

Note—Weights Each, Except Where Noted, Do Not Include Handles.

HATCHETS

PLUMB LATH BOX



The Advertised Finish

Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-Up Handle Wedge.

| | | |
|-----------------------------|---------|--------|
| Nos. | HF3010 | HF3011 |
| Size | 1 | 2 |
| Bit, Inches | 2 1/4 | 2 1/2 |
| Weight Each | 12 oz. | 1 lb. |
| Weight Per Dozen, Lbs. | 17 | 22 |
| Per Dozen | \$30.50 | 31.50 |

One-half Dozen in a Box.

PLUMB PRODUCE DEALERS



The Advertised Finish

Short Pattern, Two Nail Slots, Solid Steel, Black Forge Finish, Mahoganized Hickory Handle, Patent Take-Up Handle Wedge.

| | |
|---|-----------|
| No. HF3005—2 1/4 in. Bit, Weight Each 12 Oz., Weight Per Dozen 11 1/4 Lbs. | Per Dozen |
| ..... | \$18.00 |

One-half Dozen in a Box.

G. T. W. PRODUCE DEALERS



Pocket Pattern

Warranted Solid Forged Tool Steel, Blue Body, Scored Head, Two Nail Slots, Selected Hickory Handle.

| | |
|--|-----------|
| No. 286—2 in. Cut, Weight Each 10 Oz. | Per Dozen |
| ..... | \$18.00 |

One-half Dozen in a Box.

G. T. W. BARREL



New York Pattern

Warranted Solid Forged Tool Steel, Polished, Scored Head, Two Nail Slots, Selected Hickory Handle.

| | |
|---|-----------|
| No. 287—2 in. Cut, Weight Each 3/4 Lb. | Per Dozen |
| ..... | \$18.00 |

One-half Dozen in a Box.

NAIL HAMMERS

Plumb Hammers are made from Special Analysis Steel Die Forged, Large Full Face, Knife Edge Claws that Bite and Hold, Selected Second Growth Hickory Handles.



PLUMB ROUND POLL

The Advertised Finish

Adze Eye, Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge.

| Nos. | HF70 | HF71 | HF72 | HF73 |
|-----------------|--------------|-------------|-------|--------|
| Size | 0 | 1 | 1 1/2 | 2 |
| Weight Each | 1 lb. 12 oz. | 1 lb. 4 oz. | 1 lb. | 13 oz. |
| Wt. Dozen, Lbs. | 23 | 23 | 20 | 17 |
| Per Dozen | \$29.60 | 20.00 | 19.00 | 18.00 |

One-half Dozen in a Box.

PLUMB BELL POLL



The Advertised Finish

Adze Eye, Hand Forged Steel, Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge.

| Nos. | HF80 | HF81 | HF82 | HF83 | HF84 |
|-----------------|-------------|--------|--------|-------|-------|
| Size | 11 | 11 1/2 | 12 | 13 | 4 |
| Weight Each | 1 lb. 4 oz. | 1 lb. | 13 oz. | 7 oz. | 4 oz. |
| Wt. Dozen, Lbs. | 23 | 20 | 17 | 9 | 6 1/2 |
| Per Dozen | \$20.00 | 19.00 | 18.00 | 17.00 | 16.50 |

One-half Dozen in a Box.

PLUMB OCTAGON POLL



The Advertised Finish

Adze Eye, Octagon Poll and Neck, Black Forge Finish, Mahoganized Hickory Handle, Take-up Handle Wedge.

| Nos. | 111 |
|--------------------|-------------|
| Size | 1 1/2 |
| Weight Each | 1 lb. 1 oz. |
| Weight Dozen, Lbs. | 20 |
| Per Dozen | \$22.00 |

One-half Dozen in a Box.

The Plumb Take-Up Wedge is cone shaped with heavy threads. Slot fits screw driver blade. As wedge is turned its sharp taper expands wood against all sides of the eye.

NAIL HAMMERS

PLUMB RIPPING



The Advertised Finish

Straight Claw, Plain Face, Adze Eye, Hand Forged Steel Rustless Black Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge.

| Nos. | HF75 | HF76 |
|--------------------|-------------|-------|
| Size | 1 | 1 1/2 |
| Weight Each | 1 lb. 4 oz. | 1 lb. |
| Weight Dozen, Lbs. | 23 | 20 |
| Per Dozen | \$20.00 | 19.00 |

One-half Dozen in a Box.



The Advertised Finish

Straight Claw, Bell Face, Adze Eye.

Hand Forged, Non-Rusting Finish, Mahoganized Hickory Handle, Patent Take-up Handle Wedge.

| Nos. | HF85 | HF86 |
|--------------------|-------------|-------|
| Size | 1 | 1 1/2 |
| Weight Each | 1 lb. 4 oz. | 1 lb. |
| Weight Dozen, Lbs. | 23 | 20 |
| Per Dozen | \$20.00 | 19.00 |

One Dozen in a Box.



MAYDOLE

Plain Face, Full Polished

Solid Crucible Steel, Adze Eye, White Hickory Handle.

| Nos. | 1 | 1 1/2 | 2 | 3 |
|--------------------|-------------|-------|--------|-------|
| Weight Each | 1 lb. 4 oz. | 1 lb. | 12 oz. | 7 oz. |
| Weight Dozen, Lbs. | 23 | 20 | 16 1/2 | 11 |
| Per Dozen | \$22.00 | 20.50 | 19.25 | 17.00 |

One-half Dozen in a Box.



Bell Face, Full Polished

Solid Crucible Cast Steel, White Hickory Handle.

| Nos. | 11 | 11 1/2 | 12 | 13 |
|--------------------|-------------|--------|--------|-------|
| Weight Each | 1 lb. 3 oz. | 1 lb. | 12 oz. | 7 oz. |
| Weight Dozen, Lbs. | 22 1/2 | 20 | 16 1/2 | 11 |
| Per Dozen | \$22.00 | 20.50 | 19.25 | 17.00 |

One-half Dozen in a Box.

Note—Weights Each Do Not Include Handles.

NAIL HAMMERS

STANLEY ROUND POLL



No. 11—Adze Eye

Forged Steel, Polished, Hardened and Tempered, Selected Second Growth Hickory Handle.

| | | | |
|------------------------|-------------|-------|--------|
| Sizes | 1 | 1½ | 2 |
| Weight Each | 1 lb. 4 oz. | 1 lb. | 13 oz. |
| Weight Per Dozen, Lbs. | 23 | 20 | 16 |
| Per Dozen | \$20.00 | 19.00 | 18.00 |

One-third Dozen in a Box.

STANLEY BELL POLL



No. 12—Adze Eye

Forged Steel, Polished, Hardened and Tempered, Selected Second Growth Hickory Handle.

| | | | | |
|--------------------|-------------|-------|--------|-------|
| Sizes | 1 | 1½ | 2 | 3 |
| Weight Each | 1 lb. 4 oz. | 1 lb. | 13 oz. | 7 oz. |
| Weight Dozen, Lbs. | 23 | 20 | 16 | 11 |
| Per Dozen | \$20.00 | 19.00 | 18.00 | 17.00 |

One-third Dozen in a Box.

STANLEY OCTAGON POLL



No. 14—Adze Eye

Forged Steel, Polished, Hardened and Tempered, Selected Second Growth Hickory Handle.

| | | | |
|------------------------|-------------|-------|--------|
| Sizes | 1 | 1½ | 2 |
| Weight Each | 1 lb. 4 oz. | 1 lb. | 13 oz. |
| Weight Per Dozen, Lbs. | 23 | 20 | 16 |
| Per Dozen | \$23.00 | 22.00 | 21.00 |

One-third Dozen in a Box.

STANLEY RED-NECK



No. 15—Red Octagonal Neck

Forged Steel, Polished, Hardened and Tempered, Adze Eye, Round Poll, Polished Hickory Handle.

| | | |
|------------------------|---------|-------|
| Sizes | 2 | 1½ |
| Weight Each | 13 oz. | 1 lb. |
| Weight Per Dozen, Lbs. | 18 | 21 |
| Each | \$21.00 | 22.00 |

One in a Box.

Note—Weights Each Do Not Include Handles.

NAIL HAMMERS

"MASTER BUILDER" OCTAGON POLL



Adze Eye

The Best that Money Can Buy.

Hammer-Forged from Master Steel, the Finest Steel obtainable for the Purpose, Full Polished.

Every Tool is given Individual Treatment in Tempering and is Subject to Special and Severe Tests.

| | | |
|------------------------|---------|--------|
| Nos. | 746 | 745 |
| Sizes | 1½ | 2 |
| Weight Each | 1 lb. | 12 oz. |
| Weight Per Dozen, Lbs. | 20 | 16½ |
| Per Dozen | \$26.00 | 26.00 |

One-half Dozen in a Box.

G. T. W. OCTAGON POLL



Adze Eye

Forged One-piece Tool Steel, Polished Selected Hickory Handle.

| | | | |
|------------------------|-------------|-------|--------|
| Nos. | 36 | 35 | 34 |
| Sizes | 1 | 1½ | 2 |
| Weight Each | 1 lb. 4 oz. | 1 lb. | 12 oz. |
| Weight Per Dozen, Lbs. | 23 | 20 | 16½ |
| Per Dozen | \$23.00 | 22.00 | 21.00 |

One-half Dozen in a Box.

HELLER RUBBERI BELL POLL



Adze Eye, Shock Proof

Hand Forged Steel, Polished, White Hickory Handle, with Rubber Cushion Around Eye.

| | | |
|------------------------|---------|-------|
| Nos. | 510 | 511 |
| Sizes | 2 | 1½ |
| Weight Each | 13 oz. | 1 lb. |
| Weight Per Dozen, Lbs. | 17 | 20 |
| Per Dozen | \$21.00 | 22.00 |

One-half Dozen in a Box.

HELLER RUBBERI ROUND POLL



Adze Eye, Shock Proof

Hand Forged Steel, Polished, White Hickory Handle, with Rubber Cushion Around Eye.

| | | |
|------------------------|---------|-------|
| Nos. | 520 | 521 |
| Sizes | 2 | 1½ |
| Weight Each | 13 oz. | 1 lb. |
| Weight Per Dozen, Lbs. | 17 | 20 |
| Per Dozen | \$21.00 | 22.00 |

The rubber cushion absorbs all shock experienced in the regular hammer. It also fastens the head so firmly to the handle that it cannot loosen.

One-half Dozen in a Box.

NAIL HAMMERS

KELLY PERFECT PLAIN HEAD



Adze Eye, Round Poll

Drop Forged Crucible Steel, Polished, Seasoned Hickory Handle.

| Nos. | 5000 | 5001 | 5001½ |
|--------------------|---------|-------|-------|
| Size | 0 | 1 | 1½ |
| Weight Each, Lbs. | 1¾ | 1¾ | 1 |
| Weight Dozen, Lbs. | 28 | 23 | 20 |
| Per Dozen | \$29.50 | 20.00 | 19.00 |

One-half Dozen in a Box.

KELLY PERFECT MILLED HEAD



Adze Eye, Round Poll

Drop Forged Crucible Steel, Polished, Seasoned Hickory Handle.

| Nos. | 5000M | 5001M | 5001½M |
|------------------------|---------|-------|--------|
| Size | 0 | 1 | 1½ |
| Weight Each, Lbs. | 1¾ | 1¾ | 1 |
| Weight Per Dozen, Lbs. | 28 | 23 | 20 |
| Per Dozen | \$30.70 | 21.20 | 20.20 |

One-half Dozen in a Box.

KELLY FALLS CITY PLAIN HEAD



Adze Eye, Round Poll

Drop Forged Crucible Steel, Polished, Seasoned Hickory Handle.

| Nos. | 5070 | 5071 | 5071½ |
|--------------------|---------|-------|-------|
| Size | 0 | 1 | 1½ |
| Weight Each, Lbs. | 1¾ | 1¾ | 1 |
| Weight Dozen, Lbs. | 28 | 23 | 20 |
| Per Dozen | \$14.40 | 14.00 | 13.50 |

One-half Dozen in a Box.

FALLS CITY MILLED HEAD



Adze Eye, Round Poll

Drop Forged Crucible Steel, Polished, Seasoned Hickory Handle.

| Nos. | 5070M | 5071M | 5071½M |
|------------------------|---------|-------|--------|
| Size | 0 | 1 | 1½ |
| Weight Each, Lbs. | 1¾ | 1¾ | 1 |
| Weight Per Dozen, Lbs. | 28 | 23 | 20 |
| Per Dozen | \$15.60 | 15.20 | 14.70 |

One-half Dozen in a Box.

NAIL HAMMERS

PHILADELPHIA BELL POLL



Adze Eye

Solid Steel, Forge Finish, Oiled Handle.

| | |
|------------------------|---------|
| No. | 145 |
| Size | 11½ |
| Weight Each, Lb. | 1 |
| Weight Per Dozen, Lbs. | 20 |
| Per Dozen | \$10.00 |

One-half Dozen in a Box.

UNION BELL POLL



Adze Eye

Forged Steel, Black Forge Finish, Walnut Stained Handle.

| | |
|------------------------|--------|
| No. | 300 |
| Size | 1½ |
| Weight Each, Lb. | 1 |
| Weight Per Dozen, Lbs. | 21 |
| Per Dozen | \$6.25 |

One-half Dozen in a Box.

PATTERN MAKERS HAMMERS

MAYDOLE



Adze Eye

Crucible Steel, Oil Finish.

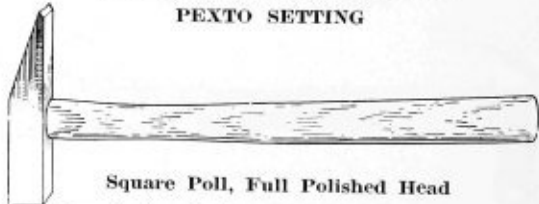
No. 935—Weight Each 5 Oz., Weight Dozen 9½ Lbs. \$20.00

These hammers are made of a special grade of steel to specifications furnished by expert pattern makers. They are so shaped that they can be used for driving in most difficult places, impossible to reach with ordinary hammer.

One-half Dozen in a Box.

TINNERS HAMMERS

PEXTO SETTING



Square Poll, Full Polished Head

Specially Designed for Sheet Metal Workers. Drop Forged High Grade Tool Steel, Specially Hardened.

| | |
|------------------------|---------|
| No. | 2 |
| Size Face, Inches | 1½ |
| Weight Each, Oz. | 20 |
| Weight Per Dozen, Lbs. | 21 |
| Per Dozen | \$17.50 |

One-half Dozen in a Box.

Note—Weights Each Do Not Include Handles.

MACHINISTS HAMMERS

PLUMB BALL PEIN



The Advertised Finish

Octagon Pattern, Hand Forged Steel, Non-Rust Black Finish, Mahogany Hickory Handles, Patent Take-Up Handle Wedges.

| Nos. | HF370 | HF371 | HF372 | HF373 | HF374 |
|-----------------|---------|-------|--------|--------|-------------|
| Size | 0000 | 000 | 00 | 0 | 1 |
| Weight Each | 6 oz. | 8 oz. | 12 oz. | 1 lb. | 1 lb. 4 oz. |
| Wt. Dozen, Lbs. | 7 1/2 | 9 | 12 1/2 | 17 1/2 | 20 |
| Per Dozen | \$14.00 | 14.00 | 14.00 | 14.70 | 15.80 |

| Nos. | HF375 | HF376 | HF377 | HF379 |
|--------------------|-------------|--------------|-------|-------------|
| Size | 2 | 3 | 4 | 6 |
| Weight Each | 1 lb. 8 oz. | 1 lb. 12 oz. | 2 lb. | 2 lb. 8 oz. |
| Weight Dozen, Lbs. | 24 | 26 3/4 | 31 | 37 |
| Per Dozen | \$17.00 | 18.20 | 19.40 | 22.30 |

One-third Dozen in a Box.

MAYDOLE BALL PEIN



Octagon Pattern

Solid Crucible Cast Steel, Polished Face, Sides and Pein, White Hickory Handle.

| Nos. | 122 | 123 | 124 | 125 |
|-----------------|--------------|-------------|-------------|-------|
| Weight Each | 1 lb. 14 oz. | 1 lb. 8 oz. | 1 lb. 4 oz. | 1 lb. |
| Wt. Dozen, Lbs. | 36 | 31 | 26 | 22 |
| Per Dozen | \$23.25 | 21.00 | 19.50 | 18.00 |

| Nos. | 126 | 127 | 128 | 128 1/2 |
|-----------------|---------|--------|--------|---------|
| Weight Each | 13 oz. | 10 oz. | 7 oz. | 5 oz. |
| Wt. Dozen, Lbs. | 18 | 13 1/2 | 10 1/2 | 9 |
| Per Dozen | \$16.50 | 15.25 | 14.25 | 13.50 |

| Nos. | 129 | 129 1/2 | 129 3/4 |
|--------------------|---------|---------|---------|
| Weight Each | 3 oz. | 2 oz. | 1 oz. |
| Weight Dozen, Lbs. | 6 | 4 1/2 | 3 |
| Per Dozen | \$13.00 | 13.00 | 13.00 |

One-third Dozen in a Box.

HELLER RUBBER BALL PEIN



Octagon Pattern, Shock-Proof

Hand Forged Steel, Polished, White Hickory Handle with Rubber Cushion Around the Eye Which Absorbs Shock and Prevents the Handle from Loosening.

| Nos. | 800 | 801 | 802 | 803 | 804 |
|-----------------|---------|--------|--------|-------------|-------------|
| Size | 000 | 00 | 0 | 1 | 2 |
| Weight Each | 8 oz. | 12 oz. | 16 oz. | 1 lb. 4 oz. | 1 lb. 8 oz. |
| Wt. Dozen, Lbs. | 9 | 12 1/2 | 17 1/2 | 20 | 24 |
| Per Dozen | \$14.00 | 14.00 | 14.70 | 15.80 | 17.00 |

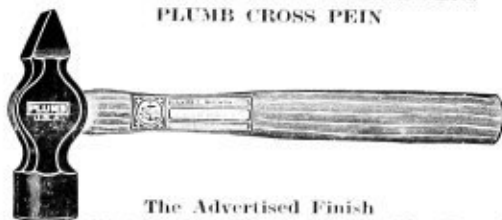
| Nos. | 805 | 806 | 807 | 808 |
|----------------|--------------|--------|-------------|-------------|
| Size | 3 | 4 | 5 | 6 |
| Weight Each | 1 lb. 12 oz. | 2 lbs. | 2 lb. 4 oz. | 2 lb. 8 oz. |
| Wt. Doz., Lbs. | 26 1/2 | 31 | 33 1/2 | 37 |
| Per Dozen | \$18.20 | 19.45 | 21.00 | 22.30 |

One-half Dozen in a Box.

Note—Weights Each Do Not Include Handles.

MACHINISTS HAMMERS

PLUMB CROSS PEIN



The Advertised Finish

Octagon Pattern, Hand Forged Steel, Non-Rust Finish, Mahogany Hickory Handle, Patent Take-Up Handle Wedge.

| Nos. | HF415 | HF417 |
|--------------------|-------------|--------|
| Size | 2 | 4 |
| Weight Each | 1 lb. 8 oz. | 2 lbs. |
| Weight Dozen, Lbs. | 24 | 30 |
| Per Dozen | \$19.40 | 22.40 |

One-third Dozen in a Box.

PLUMB STRAIGHT PEIN

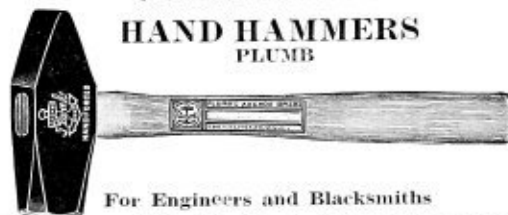


The Advertised Finish

Octagon Pattern, Hand Forged Steel, Non-Rust Finish, Mahogany Hickory Handle, Patent Take-Up Handle Wedge.

| Nos. | HF395 | HF397 |
|--------------------|-------------|--------|
| Size | 2 | 4 |
| Weight Each | 1 lb. 8 oz. | 2 lbs. |
| Weight Dozen, Lbs. | 24 | 30 |
| Per Dozen | \$19.45 | 22.40 |

One-third Dozen in a Box.

HAND HAMMERS
PLUMB

For Engineers and Blacksmiths

Solid Forged Crucible Steel, Black Forge Finish, Mahogany Hickory Handles, Patent Take-Up Handle Wedge.

| Nos. | HF280 | HF281 | HF282 |
|--------------------|--------------|--------|---------------|
| Size | 0 | 1 | 2 |
| Weight Each | 1 lb. 10 oz. | 2 lbs. | 2 lbs. 10 oz. |
| Weight Dozen, Lbs. | 25 | 30 | 36 |
| Per Dozen | \$18.25 | 19.65 | 21.00 |

| Nos. | HF283 | HF284 |
|--------------------|---------|-------------|
| Size | 3 | 4 |
| Weight Each | 3 lbs. | 3 lb. 8 oz. |
| Weight Dozen, Lbs. | 42 | 62 |
| Per Dozen | \$22.40 | 23.75 |

One-third Dozen in a Box.

SCALING HAMMERS
PLUMB

Crucible Steel, Black Finish, Hickory Handle

| No. | 3095 | Size | 1 | Weight Each | 1 Lb. | Weight Per Dozen |
|-----|------|------|---|-------------|-------|------------------|
| | | | | | | \$12.00 |

Dozen 16 Lbs.

One-half Dozen in a Box.

RIVETING HAMMERS

PLUMB



The Advertised Finish

Plain Eye, Hand Forged Steel, Non-Rust Black Finish, Mahogany Hickory Handle, Patent Take-Up Handle Wedge.

| | | | |
|--------------------|---------|--------|-------------|
| Nos. | HF250 | HF251 | HF252 |
| Size | 0 | 1 | 2 |
| Weight Each | 4 oz. | 7 oz. | 9 oz. |
| Weight Dozen, Lbs. | 6 1/2 | 7 1/2 | 10 |
| Per Dozen | \$13.50 | 14.15 | 14.75 |
| Nos. | HF253 | HF254 | HF255 |
| Size | 3 | 4 | 5 |
| Weight Each | 12 oz. | 15 oz. | 1 lb. 2 oz. |
| Weight Dozen, Lbs. | 13 1/2 | 15 1/2 | 17 |
| Per Dozen | \$15.35 | 16.00 | 17.20 |

One-half Dozen in a Box.

STANLEY



No. 147—Plain Eye

Forged Steel, Polished, Second Growth Hickory Handle.

| | | | | | | |
|----------------|---------|-------|-------|-------|--------|--------|
| Size | 0 | 1 | 2 | 3 | 4 | 5 |
| Wt. Each, Oz. | 4 | 7 | 9 | 12 | 14 | 18 |
| Wt. Doz., Lbs. | 5 | 8 | 9 | 12 | 15 1/2 | 18 1/2 |
| Per Dozen | \$13.50 | 14.15 | 14.75 | 15.35 | 16.00 | 17.20 |

One-third Dozen in a Box.

MAYDOLE



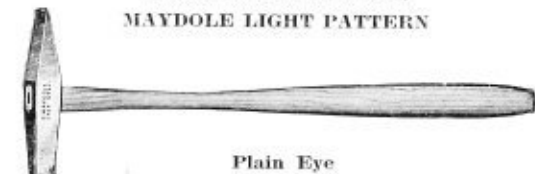
Plain Eye

Solid Crucible Cast Steel, Full Polished, Selected Hickory Handle.

| | | | |
|------------------------|---------|-------|-------|
| Nos. | 40 | 41 | 42 |
| Weight Each, Ozs. | 24 | 18 | 13 |
| Weight Per Dozen, Lbs. | 25 | 20 | 15 |
| Per Dozen | \$20.00 | 18.00 | 16.75 |
| Nos. | 42 1/2 | 43 | 44 |
| Weight Each, Ozs. | 10 | 7 | 4 |
| Weight Per Dozen, Lbs. | 11 1/2 | 9 1/2 | 7 |
| Per Dozen | \$14.50 | 13.75 | 12.75 |

One-half Dozen in a Box.

MAYDOLE LIGHT PATTERN



Plain Eye

Solid Crucible Cast Steel, Full Polished, Selected Hickory Handle.

| | | | | |
|------------------------|---------|-------|-------|-------|
| Nos. | 265 | 266 | 267 | 268 |
| Weight Each | 6 oz. | 4 oz. | 3 oz. | 2 oz. |
| Weight Per Dozen, Lbs. | 8 1/2 | 6 1/2 | 4 1/2 | 3 1/2 |
| Per Dozen | \$14.50 | 13.50 | 13.00 | 12.60 |

One-half Dozen in a Box.

Note—Weights Each, Except When Noted Do Not Include Handles.

FARRIERS HAMMERS

HELLER DRIVING



No. 64—Octagon Pattern, Adze Eye

Special Refined Crucible Tool Steel, Polished, Hickory Handle.

| | |
|------------------------------|---------|
| Weight Each with Handle, Oz. | 16 |
| Weight Per Dozen, Lbs. | 19 |
| Per Dozen | \$30.00 |

One-half Dozen in a Box.



No. 65—Heller Pattern, Adze Eye

Special Refined Crucible Tool Steel, Polished, Hickory Handle.

| | |
|------------------------------|---------|
| Weight Each with Handle, Oz. | 16 |
| Weight Per Dozen, Lbs. | 19 |
| Per Dozen | \$30.00 |

One-half Dozen in a Box.

HELLER ROUNDING



No. 61—Standard Pattern

Special Refined Crucible Tool Steel, Polished, Hickory Handle.

| | |
|-------------------------------|---------|
| Weight Each with Handle, Lbs. | 2 1/4 |
| Weight Per Dozen, Lbs. | 38 |
| Per Dozen | \$50.50 |

One-quarter Dozen in a Box.

HELLER FITTING



No. 62—Standard Pattern

Special Refined Crucible Tool Steel, Polished, Hickory Handle.

| | |
|-------------------------------|---------|
| Weight Each with Handle, Lbs. | 2 1/4 |
| Weight Per Dozen, Lbs. | 38 |
| Per Dozen | \$48.00 |

One-quarter Dozen in a Box.

HELLER SHARPENING



No. 67—Standard Pattern

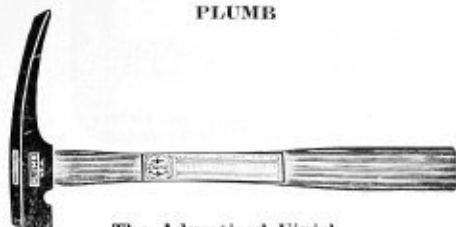
Special Refined Crucible Tool Steel, Polished, Hickory Handle.

| | |
|-------------------------------|---------|
| Weight Each with Handle, Lbs. | 2 1/4 |
| Weight Per Dozen, Lbs. | 38 |
| Per Dozen | \$48.00 |

One-quarter Dozen in a Box.

BRICK HAMMERS

PLUMB



The Advertised Finish

Plain Eye, Solid Forged Steel, Black Forge Finish, Mahogany Hickory Handle, Patent Take-Up Handle Wedge.

| | |
|-----------------------------|---------|
| No. | HF2580 |
| Size | 1 |
| Weight Each, Lbs. | 1 1/2 |
| Weight Per Dozen, Lbs. | 26 |
| Per Dozen | \$17.50 |

One-half Dozen in a Box.

VLCEK



No. 132—Adze Eye, with Handle

Drop Forged Tool Steel, Ebony Finish, Selected Hickory Handle, Perfectly Balanced, Spalling Face, Hard Center, Four Tough Sharp Edges.

| | | | |
|------------------------|---------|-------|-------|
| Size | 1 | 2 | 3 |
| Weight Each, Lbs. | 1 3/4 | 2 | 2 1/2 |
| Per Dozen | \$18.50 | 19.00 | 20.00 |

This pattern was originated from suggestions from practical bricklayers.

One in a Box, with Handle.

BRICK SKETZ

VLCEK



No. 136—Adze Eye, with Handle

Drop Forged Tool Steel, Ebony Finish, Selected Hickory Handle, Perfectly Balanced, Tough Sharp Cutting Edges.

| | | | |
|------------------------|---------|-------|-------|
| Size | 1 | 2 | 3 |
| Weight Each, Lbs. | 1 3/4 | 2 | 2 1/2 |
| Per Dozen | \$18.50 | 19.00 | 20.00 |

These Hammers and Sketz have perfect adze eye. The handles will hold without wedges and are easily removed for redressing.

One in a Box, with Handle.

PAVERS HAMMERS



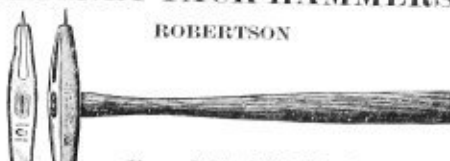
Adze Eye

Hand Forged Tool Steel, Natural Finish, with Handle.

| | |
|---------------------------------|---------|
| No. 214—Weight Each 3 Lbs. | \$72.00 |
| Per Dozen | |
| Open Stock. | |

MAGNET TACK HAMMERS

ROBERTSON



Forged Steel, Polished

Strong Permanent Magnet, Finished Hardwood Handle.

| | |
|--|-------------------|
| No. 412—4 Oz. Head, 12 in. Handle. | Per Dozen \$12.00 |
| No. 812—8 Oz. Head, Nickel Plated, 12 in. Handle. | 30.00 |

One Dozen in a Box.

STANLEY MAGNETIC



Magnetized Iron Head, Polished, Hardwood Handle, with Claw

| | |
|---|--------|
| No. 2—11 1/2 in. Long, Head 4 in., Weight Per Dozen 4 Lbs. | \$2.50 |
|---|--------|

One Dozen in a Box.

BILL POSTERS HAMMERS

ROBERTSON MAGNETIC



With Card and Tack Holder

Nickel Plated Hammer Head and Handle Trimmings, with Springs for Holding Card to Set First Tack.

| | | |
|-----------------------------|--------|------|
| Nos. | 502 | 503 |
| Length Handle, Inches. | 36 | 45 |
| Number of Sections. | 2 | 3 |
| Weight of Head, Oz. | 5 | 5 |
| Each | \$3.50 | 4.50 |

Two in a Box.

TACK HAMMERS



With Claw

Cast Iron, Polished, Hardwood Handle.

| | |
|---|------------------|
| No. 1—6 Oz., Weight Per Dozen 5 Lbs. | Per Dozen \$1.50 |
| One Dozen in a Box. | |

GLAZIERS HAMMERS



Rotary Head

Tool Steel Rotary Head, Nickel Plated, Polished Hardwood Handle

| | |
|--|-------------|
| No. 99—10 1/2 in. Long, Weight Each 6 Oz. | Each \$1.25 |
|--|-------------|

A hammer for glaziers and picture frame makers. With this tool glass can be set quicker and with more absolute security than by any other means.

Six in a Box.

UPHOLSTERERS HAMMERS



Heavy Pattern

Solid Forged Steel, Polished, Hardwood Handle.

No. 121—Assorted $\frac{1}{2}$, $\frac{3}{8}$ and $\frac{1}{4}$ in. Faces, Weight
Per Dozen 8 Lbs. \$10.00
One-half Dozen in a Box.



No. 61—French Pattern

Solid Forged Steel, Polished, Rosewood Handle.

| | | |
|-------------------------------|-----------------|---------------|
| Sizes | 4 | 5 |
| Diameter of Face, Inches..... | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Length of Head, Inches..... | $6\frac{3}{4}$ | 7 |
| Weight Each, Oz..... | $15\frac{1}{2}$ | 16 |
| Per Dozen | \$27.00 | 36.00 |

One-half Dozen in a Box.

SHOE HAMMERS

HAMMOND



Oval Face

Forged Steel, Polished, with Tool Steel Face, Selected Hickory Handle.

| | | |
|-------------------------------------|---------|-------|
| Nos. | 323 | 324 |
| Sizes | 0 | 1 |
| Weight Each, without Handle, Oz.... | 11 | 13 |
| Per Dozen | \$10.00 | 10.50 |

One-half Dozen in a Box.

CAST IRON

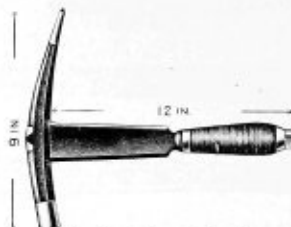


For Home Work

Cast Iron, Japanned, Polished Face.

No. 4—Weight Per Dozen 12 Lbs. \$4.00
One-half Dozen in a Box.

SLATERS HAMMERS

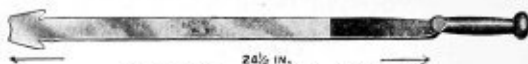


With Leather Handle

One-piece Drop Forged Steel, with Punch Point, Hammer End and Center Claw Tempered to withstand heavy work.

No. 12—9 in. Head to Point, 12 in. from Head to End of Handle, Weight Each $2\frac{3}{4}$ Lbs. \$6.70

SLATERS RIPPERS



Forged Crucible Cast Steel

The Blade is drawn very Thin and Hook End Correctly Tempered for hard wear.

No. 24—Blade $24\frac{1}{2}$ in. Long, Weight Each $2\frac{1}{2}$ Lbs. \$4.20

SLATERS STAKES



Forged from Fine Tool Steel, Hardened and Ground

No. 18—18 in. Long, Weight Each $2\frac{1}{4}$ Lbs. \$2.50

BUMPING HAMMERS

FAIRMOUNT



For Sheet Metal Work

For Reshaping and Straightening Automobile Fenders. Drop Forged Tool Steel, Black Finish, Polished Faces. Selected Hickory Handle.

No. 160G—Weight 10 Oz., Length Head 4 in., Diameter Face $1\frac{1}{4}$ in. \$1.25

DOLLY BLOCKS

FAIRMOUNT



No. 1059.

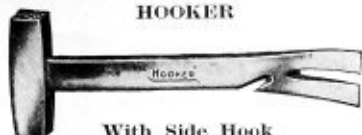


No. 1068.

Ground and Full Polished

Use as a Seaming Block for irregular sheet metal products, and for reshaping and straightening Automobile Fenders.

| | | |
|-------------------------|----------------|----------------|
| Nos. | 1059 | 1068 |
| Length, Inches | $2\frac{3}{4}$ | $4\frac{3}{4}$ |
| Width, Inches | $3\frac{1}{2}$ | $2\frac{1}{2}$ |
| Thickness, Inches | $1\frac{1}{8}$ | $1\frac{1}{8}$ |
| Weight Each, Lbs. | $2\frac{1}{2}$ | $2\frac{1}{2}$ |
| Each | \$1.50 | 1.50 |

CRATE OPENERS**HOOKEE****With Side Hook**

Forged from One Bar of Fine Quality Steel, Carefully Tempered, Polished, Heavily Nickel Plated. Per Dozen
No. 42—9 in. Long, Weight Each 15 Oz. \$15.00

One face of hammer head scored and one plain polished. Nails can be gripped in most any position and at just the right angle to pull easy. The best pocket tool for opening boxes, crates, barrels, prying off lids, hammering, etc.
One-half Dozen in a Box.

BOX TERRIER**Standard Pattern**

One Piece Forged Steel, Hardened Head, Tempered Claw, One Face Scored, One Smooth, Nickel Plated Finish, Full Polished. Per Dozen

No. 82—9 1/4 in. Long, Weight Each 15 Oz. \$12.00
One-half Dozen in a Box.

BABY TERRIER**Pocket Pattern**

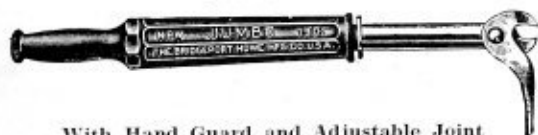
One Piece Forged Steel, Hardened Head, Tempered Claw, One Face Scored, One Smooth, Polished and Nickel Plated Finish. Per Dozen

No. 78—6 1/2 in. Long, Weight Each 8 Oz. \$8.50
One-half Dozen in a Box.

NAIL PULLERS**GENUINE GIANT IMPROVED**

Improved Hand Protector, New Box Joint, Non-Rolling Forged from Tool Steel in Three Parts, Black Enamel Handle, Polished Jaws. Per Dozen

No. 1—Total Length 18 in., Length of Rammer 12 in., Weight Per Dozen 60 Lbs. \$24.00

NEW JUMBO**With Hand Guard and Adjustable Joint**

High Grade Tool Steel Jaws and Shank, Hardened, Oil Tempered and Polished Black Enameled Iron Handle. Per Dozen

No. 57—18 in. Long, Weight Per Dozen 60 Lbs. \$20.00

MORRILL**Gravity Opening Jaws**

Forged Steel Jaws, Foot and Shank, I-Beam Section Forged Finish, Japanned Cast Hammer, Box Joint Jaws. Per Dozen

No. 1M—18 in. Long when Closed, Weight Per Dozen 50 Lbs. \$36.00

The puller has handle and hand guard to protect hand, the foot is centrally mounted in box joint to keep jaws from spreading, there are no springs to break.

BOX CHISELS**ROUND****Forged Steel, Black Finish, Polished Claw**

Per Dozen
No. 289—14 in. Long, Weight Per Dozen 14 1/4 Lbs. \$10.00

One-half Dozen in a Box.

FLAT**Forged Steel, Polished**

Per Dozen
No. 291—14 in. Long, Weight Per Dozen 14 1/2 Lbs. \$10.00

One-half Dozen in a Box.

NAIL CLAWS**SARGENT****Wrought Steel, Japanned, Five Fingers**

Each
No. 0—12 in. Long, Weight Per Dozen 16 Lbs. \$1.15

Five in a Box.

TACK CLAWS**Square Shank**

Forged Steel Blade, Polished Rosewood Finish Handle, Nickel Plated Steel Ferrule.

Per Dozen
No. 148—7 in. Long, 3/8 in. Square Steel, Weight Per Dozen 2 Lbs. \$2.00

One Dozen in a Box.

**Flat Shank**

Forged Steel Blade, Polished, Ebonized Hardwood Handle, Nickel Plated Steel Ferrule, Riveted Tang.

Per Dozen
No. 151—6 in. Long, Weight Per Dozen 1 1/2 Lbs. \$2.00

One Dozen in a Box.

CARPET STRETCHERS**Deep Socket**

Forged Steel, Full Polished Finish.

Per Dozen
No. 135—Weight Per Dozen 7 Lbs. \$3.00

One-half Dozen in a Box.

BOX SCRAPERS

STANLEY



For Removing Markings from Boxes

Cast Steel Blade, Japanned Malleable Iron Frame, Maple Handle.

Each
No. 70—13 in. Long, 2 in. Blade, Weight Each 1 Lb. \$1.15
Extra Blades25

The face of the bottom and the edge of the cutter are slightly curved away from the center, allowing the user to scrape any uneven surface.

Six in a Box.

DANDY



Forged Tool Steel

Natural Finish Hardwood Handles, Riveted and Varnished.

Per Dozen
No. 15—12 1/2 in. Long, Blade 2 in. Wide, Weight
Each 1 1/4 Lbs. \$8.40

The angle of the blade is just right for quick work and is carefully tempered to hold its edge.

One-half Dozen in a Box.

DOUBLE HANDLE



Riveted

Forged Steel Blade, Hardwood Handle.

Per Dozen
No. 271—Light Pattern, Weight Per Dozen 8 3/4 Lbs. \$8.00
One-half Dozen in a Box.

TRIANGULAR



Single Handle, Riveted

Adjustable Forged Steel Blade, Hardwood Handle.

Per Dozen
No. 272—Weight Per Dozen 8 Lbs. \$7.00
One-half Dozen in a Box.

SHIP SCRAPERS

Adjustable Triangular Blade

Cast Steel Blade with Three Beveled Edges, Malleable Iron Ferrule, Polished Maple Handle, Sharpened Ready for Use.

Per Dozen
No. 8—17 in. Long Over All, 13 1/2 in. Handle, Width
of Cutting Edge 5 in., Weight Per Dozen 19
Lbs. \$20.00

One Dozen Blades in a Box, Handles Loose.

BOX AND HAY HOOKS

SARGENT



Bright Finish, White Hardwood Handles

Each
No. 2—7 1/4 in. Long, 3/8 in. Round Steel Stock, Handle 5 1/4 in. Long, Weight Each 7 1/2 Oz. \$0.46
Ten in a Box.



Extra Heavy

Octagon Steel, Forge Finish, White Hardwood Handle.

Each
No. 25—8 1/2 in. Long, 1/2 in. Diameter Steel Handle
5 1/4 in. Long, Weight Each 14 Oz. \$0.66
Ten in a Box.



Bright Finish, Hardwood Handle

Each
No. 15—9 in. Long, 3/8 in. Diameter Hook, 5 1/4 in.
Handle, Weight Each 9 Oz. \$0.56
Ten in a Box.



Bright Finish, Black Hardwood Handle

Each
No. 18—12 3/4 in. Long, 5/8 in. Diameter Hook, 7 in.
Handle, Weight Each 9 Oz. \$0.90
Five in a Box.

MARKING POTS

STANDARD



I. C. Tin, Flaring Shape

Per Dozen
No. 1—5 3/8 in. Diameter, 3 3/4 in. High. \$3.60

COMBINATION BALL



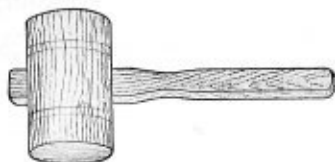
Used for Either Hand or Stencil Brush Marking

The Ball in the pot gives an even distribution of the marking fluid, while the top of the pot affords a daubing surface to prime the brush giving just the proper amount of ink for clean and legible marking.

Per Dozen
No. 2—Combination \$9.45

MALLET

ROUND



Hickory Head, Mortised Hardwood Handle

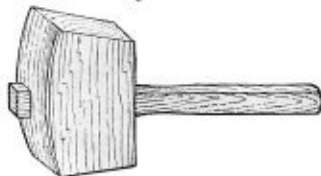
| Nos. | 1 | 2 | 3 |
|---------------------------|--------|-------|--------|
| Length of Head, Inches.. | 5 | 5 1/2 | 6 |
| Faces, Inches | 3 | 3 1/2 | 4 |
| Length of Handle, Inches. | 10 1/2 | 13 | 13 |
| Weight Per Dozen, Lbs.. | 15 1/2 | 22 | 28 1/2 |
| Per Dozen | \$7.80 | 10.80 | 13.20 |

Lignumvitae, Mortised Hardwood Handle

| No. | 6 |
|---------------------------|---------|
| Length of Head, Inches.. | 5 1/2 |
| Faces, Inches | 3 1/2 |
| Length of Handle, Inches. | 13 |
| Weight Per Dozen, Lbs.. | 29 |
| Per Dozen | \$16.00 |

Open Stock.

SQUARE



Hickory, Mortised Hardwood Handle

| Nos. | 8 | 9 | 10 |
|----------------------|---------------|---------------|-------|
| Length, Inches | 6 | 6 1/2 | 7 |
| Face, Inches | 2 1/2 x 3 1/2 | 2 3/4 x 3 3/4 | 3 x 4 |
| Handle, Inches | 10 1/2 | 13 | 13 |
| Weight Dozen, Lbs.. | 16 | 21 1/2 | 24 |
| Per Dozen | \$9.60 | 12.00 | 14.40 |

Open Stock.

TINNERS



Round, Hickory Head, Mortised Hardwood Handle

| Nos. | 4 | 4 1/2 |
|---------------------------|--------|--------|
| Length of Head, Inches.. | 5 1/2 | 6 |
| Diameter of Head, Inches. | 2 1/2 | 3 |
| Length of Handle, Inches. | 10 1/2 | 10 1/2 |
| Weight Per Dozen, Lbs.. | 11 1/2 | 12 1/2 |
| Per Dozen | \$4.00 | 5.00 |

Open Stock.

IRON RING



Hickory Head, Iron Rings, Mortised Hardwood Handle

| No. | 14 |
|---------------------------|---------|
| Length of Head, Inches.. | 6 |
| Faces, Inches | 4 |
| Length of Handle, Inches. | 13 |
| Weight Per Dozen, Lbs.. | 34 1/2 |
| Per Dozen | \$20.00 |

Open Stock.

MALLET

RAWHIDE



Standard Weights

Rawhide Head, Hardwood Handle.

| Nos. | 0M | 1M | 2M | 3M |
|-----------------------|---------|-------|-------|-------|
| Diameter Head, In.... | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| Length Head, Inches.. | 2 3/4 | 3 1/8 | 3 1/4 | 3 3/8 |
| Weight Each, Oz..... | 2 | 4 | 6 | 8 |
| Per Dozen | \$10.00 | 12.50 | 14.00 | 15.00 |

| Nos. | 4M | 5M | 6M |
|------------------------|---------|-------|-------|
| Diameter Head, Inches. | 2 | 2 3/4 | 2 3/4 |
| Length Head, Inches.. | 3 1/2 | 4 1/4 | 4 3/4 |
| Weight Each, Oz..... | 10 | 22 | 24 |
| Each | \$20.50 | 45.00 | 51.25 |

Open Stock.

RAWHIDE FACED HAMMERS



Japanned Iron Head, Rawhide Faces, Hardwood Handle

| Nos. | 0H | 1H | 2H | 3H | 4H | 5H |
|------------------|---------|-------|-------|-------|-------|-------|
| Diam. Face, In.. | 3/4 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 3/4 |
| Wt. Each, Lbs.. | 1/2 | 1 1/8 | 1 1/8 | 2 1/4 | 4 | 5 3/4 |
| Per Dozen | \$22.70 | 26.50 | 33.75 | 40.00 | 58.50 | 83.75 |

Extra Faces—

| | | | | | | |
|----------------|------|------|------|-------|-------|-------|
| Dozen Pairs... | 7.00 | 7.60 | 9.00 | 11.50 | 16.00 | 22.75 |
|----------------|------|------|------|-------|-------|-------|

Open Stock.

COPPER HAMMERS



Without Handles

Made from Solid Bar Pure Copper, used for hammering finished work without marring.

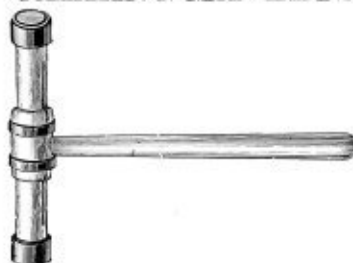
| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-----------------|--------|-----|-------|------|-------|------|------|
| Wt. Each, Lbs.. | 1/2 | 1 | 1 1/2 | 2 | 2 1/2 | 3 | 4 |
| Each | \$0.55 | .65 | .90 | 1.20 | 1.50 | 1.80 | 2.25 |

Per Dozen

| | |
|--------------------|--------|
| Handle—Extra | \$1.75 |
|--------------------|--------|

Open Stock.

CALKING MALLET



Polished Rings, Live Oak, Thoroughly Seasoned, Polished

| | |
|--------------------------------|--------|
| No. 241—Standard Weights | \$6.00 |
|--------------------------------|--------|

Open Stock.

STONE CUTTERS MALLET



Second Growth Hickory, 6 in. Hardwood Handle

| | | | |
|-------------------|--------|------|-------|
| Nos. | S3 | S4 | S5 |
| Size, Inches..... | 5 1/2 | 6 | 6 1/4 |
| Weight Each, Lbs. | 3 | 4 | 5 |
| Each | \$1.75 | 2.00 | 2.50 |

| | | | |
|-------------------|--------|-------|-------|
| Nos. | S6 | S7 | S8 |
| Size, Inches..... | 6 3/4 | 7 1/4 | 7 3/4 |
| Weight Each, Lbs. | 6 | 7 | 8 |
| Each | \$3.00 | 3.50 | 4.00 |

Weights given are approximate only.

SOFT METAL HAMMER MOULDS
HORAT

For Moulding Soft Metal Hammers

The hammer handle is placed in position and the mold clamped. Lead or babbitt is melted in the ladle, which holds just enough for one hammer. The mold is then tilted, the metal runs into the mold and the hammer is ready when mold is removed. Handle is included with each mold.

| | | | | |
|-----------------------------|--------|------|------|------|
| Nos. | 2H | 3H | 4H | 5H |
| For Hammers, Wt. Each, Lbs. | 2 | 3 | 4 | 5 |
| Each | \$2.00 | 2.25 | 2.50 | 2.75 |

Everyone who handles finished work knows the efficiency of a soft metal hammer. They can be used on finished steel, brass, bronze, aluminum, gears, cams, sprockets, etc.

POST MAULS



No. 90A—Cast Iron

Japanned Head, Inserted Hickory Faces, 36 in. Hickory Handle.

| | | | |
|----------------------------|--------|-------|-------|
| Size, Lbs. | 12 | 14 | 16 |
| Length Head, Inches..... | 5 | 5 1/4 | 5 1/2 |
| Diameter Face, Inches..... | 3 1/4 | 3 1/2 | 3 3/4 |
| Each | \$2.50 | 2.90 | 3.25 |

These mauls are used for a wide range of work for driving posts, stakes, etc.

SEWER BUILDERS MAULS



Best Second Growth Hickory Head, 2x 1/4 in. Iron Bands, 36 in. Selected Hickory Handle

| | |
|---------------------------|--------|
| Nos. | 612 |
| Size of Head, Inches..... | 6x12 |
| Average Weight Each, Lbs. | 21 |
| Each | \$5.00 |

BUNG STARTERS



Riveted Style

Dovetailed Maple Head, Hickory Handle.

| | |
|--|---------------------|
| No. 1—6x3 1/4 x1 in. Head, 24 in. Handle, Weight Per Dozen 14 Lbs. | Per Dozen \$8.00 |
|--|---------------------|

HOOP DRIVERS
NANTUCKET

Solid Crucible Steel

Selected Second Growth Hickory Handle.

| | |
|--|----------------------|
| No. 165—6 in. Head, 1 1/4 in. Edge, Weight Each 2 1/4 Lbs. | Per Dozen \$29.25 |
| Open Stock. | |

COOPERS SHORT OVAL



Solid Crucible Steel

Varnished Hickory Handle, with Ring.

| | |
|--------------------------------------|----------------------|
| No. 166—Assorted 2 1/2 and 2 3/4 in. | Per Dozen \$39.25 |
| Open Stock. | |

COOPERS SOCKET



Solid Crucible Steel

Varnished Hickory Handle, with Ring.

| | |
|-------------------------|----------------------|
| No. 164—Assorted Widths | Per Dozen \$35.00 |
| Open Stock. | |

CALKING IRONS



Single Crease

Solid Crucible Steel, Full Polished.

| | |
|------------------------|----------------------|
| No. 48D—5 1/2 in. Long | Per Dozen \$30.00 |
|------------------------|----------------------|

These are made with extreme care of the finest material and are the best calking irons on the market.

SLEDGES AND HEAVY HAMMERS

BLACKSMITHS SLEDGES



No. 322—Cross Pein

Solid Cast Steel, Oil Finish, Polished Face.

| | | | | |
|--------------------|--------|-------|-------|-------|
| Weight, Lbs. . . | 6 | 8 | 10 | 12 |
| Length, Inches. . | 6 1/2 | 7 | 7 1/2 | 8 |
| Face, Inches . . . | 2 | 2 1/4 | 2 1/2 | 2 3/4 |
| Per Pound | \$0.30 | .30 | .30 | .30 |



No. 326—Straight Pein

Solid Cast Steel, Oil Finish, Polished Face.

| | | | | |
|--------------------|--------|-------|-------|-------|
| Weight, Lbs. . . | 6 | 8 | 10 | 12 |
| Length, Inches. . | 6 1/2 | 7 | 7 1/2 | 8 |
| Face, Inches . . . | 2 | 2 1/4 | 2 1/2 | 2 3/4 |
| Per Pound | \$0.30 | .30 | .30 | .30 |



No. 325—Double Faces

Solid Cast Steel, Oil Finish, Polished Face.

| | | | | |
|--------------------|--------|-----|-------|-------|
| Weight, Lbs. . . | 4 | 5 | 6 | 8 |
| Length, Inches. . | 5 1/2 | 6 | 6 1/4 | 6 3/4 |
| Face, Inches . . . | 1 1/2 | 2 | 2 | 2 1/4 |
| Per Pound | \$0.40 | .30 | .30 | .30 |

| | | | | |
|--------------------|--------|-------|-------|-------|
| Weight, Lbs. . . | 10 | 12 | 14 | 16 |
| Length, Inches. . | 7 1/2 | 8 | 8 1/2 | 9 |
| Face, Inches . . . | 2 1/2 | 2 3/4 | 2 3/4 | 2 3/4 |
| Per Pound | \$0.30 | .30 | .30 | .30 |

BLACKSMITHS HAND HAMMERS



No. 190—Western Pattern

Solid Cast Steel, Oil Finish, Polished Face.

| | | | |
|--------------------|--------|-------|-------|
| Weight, Lbs. . . | 2 | 2 1/2 | 3 |
| Length, Inches. . | 4 1/2 | 4 3/4 | 4 3/4 |
| Face, Inches . . . | 1 1/2 | 1 3/4 | 1 3/4 |
| Per Pound | \$0.50 | .50 | .40 |

| | | |
|------------------------|--------|-------|
| Weight, Lbs. | 3 1/2 | 4 |
| Length, Inches | 5 | 5 3/4 |
| Face, Inches | 1 3/4 | 1 3/4 |
| Per Pound | \$0.40 | .40 |

BLACKSMITHS HAND HAMMERS



No. 191—New England Pattern

Solid Cast Steel, Oil Finish, Polished Face.

| | | | |
|--------------------|--------|-------|-------|
| Weight, Lbs. . . . | 2 | 2 1/2 | 3 |
| Length, Inches. . | 4 3/4 | 4 3/4 | 4 3/4 |
| Face, Inches . . . | 1 1/2 | 1 3/4 | 1 3/4 |
| Per Pound | \$0.50 | .50 | .40 |

| | | |
|------------------------|--------|-------|
| Weight, Lbs. | 3 1/2 | 4 |
| Length, Inches | 5 | 5 1/4 |
| Face, Inches | 1 3/4 | 1 3/4 |
| Per Pound | \$0.40 | .40 |

HAND DRILLING OR STONE CUTTERS HAMMERS



No. 203—New England Pattern

Solid Cast Steel, Oil Finish, Polished Face.

| | | | |
|--------------------|--------|-------|-------|
| Weight, Lbs. . . . | 2 | 2 1/2 | 3 |
| Length, Inches. . | 4 1/4 | 4 1/4 | 4 3/4 |
| Face, Inches . . . | 1 1/2 | 1 3/4 | 1 3/4 |
| Per Pound | \$0.55 | .55 | .50 |

| | | |
|------------------------|--------|-------|
| Weight, Lbs. | 3 1/2 | 4 |
| Length, Inches | 4 3/4 | 4 3/4 |
| Face, Inches | 1 3/4 | 1 3/4 |
| Per Pound | \$0.50 | .50 |

STRIKING OR DRILLING HAMMERS



No. 229—Long Pattern

Solid Cast Steel, Oil Finish, Polished Face.

| | | | |
|--------------------|--------|-------|-------|
| Weight, Lbs. . . . | 6 | 8 | 10 |
| Length, Inches. . | 6 1/2 | 7 1/4 | 7 3/4 |
| Face, Inches . . . | 2 | 2 1/2 | 2 1/2 |
| Per Pound | \$0.30 | .30 | .30 |

| | | | |
|--------------------|--------|-------|-------|
| Weight, Lbs. . . . | 12 | 14 | 16 |
| Length, Inches. . | 8 | 8 1/4 | 8 3/4 |
| Face, Inches . . . | 2 1/4 | 2 3/4 | 2 3/4 |
| Per Pound | \$0.30 | .30 | .30 |

STONE SLEDGES



No. 337—Oval Face, Sharp Pein

Solid Cast Steel, Oil Finish, Polished Face.

| | | | |
|---------------------|--------|-------|-------|
| Weight, Lbs. . . . | 8 | 10 | 12 |
| Length, Inches. . | 7 1/4 | 7 1/2 | 7 3/4 |
| Face, Inches . . . | 2 1/4 | 2 3/4 | 2 1/2 |
| Bit, Inches | 2 3/4 | 2 3/4 | 2 1/2 |
| Per Pound | \$0.30 | .30 | .30 |

| | | |
|------------------------|--------|-------|
| Weight, Lbs. | 14 | 16 |
| Length, Inches | 8 1/4 | 8 3/4 |
| Face, Inches | 2 1/2 | 2 3/4 |
| Bit, Inches | 2 1/2 | 2 3/4 |
| Per Pound | \$0.30 | .30 |

NAPPING HAMMERS



No. 212—Oval Faces

Solid Cast Steel, Oil Finish, Polished Faces.

| | | | |
|--------------------|--------|-------|-------|
| Weight, Lbs. . . . | 3 | 4 | 5 |
| Length, Inches. . | 6 1/4 | 6 1/2 | 6 3/4 |
| Face, Inches . . . | 1 1/2 | 1 3/4 | 1 3/4 |
| Per Pound | \$0.40 | .40 | .40 |

SPALLING HAMMERS



No. 222—Single Face

No. 223—Double Face

Solid Cast Steel, Oil Finish, Polished Face.

| | | |
|--------------------|---------------|---------------|
| Weight, Lbs. . . . | 8 | 10 |
| Length, Inches. . | 8 | 8 1/2 |
| Face, Inches . . . | 2 1/2 x 1 1/2 | 2 1/2 x 1 3/4 |
| Width Bit, In. . . | 2 1/2 | 2 3/4 |
| Each | \$0.40 | .40 |

| | | |
|--------------------|---------------|---------------|
| Weight, Lbs. . . . | 12 | 14 |
| Length, Inches. . | 9 | 9 1/2 |
| Face, Inches . . . | 2 1/2 x 1 3/4 | 2 3/4 x 1 3/4 |
| Width Bit, In. . . | 2 3/4 | 2 1/2 |
| Each | \$0.40 | .40 |

| | |
|------------------------|---------------|
| Weight, Lbs. | 16 |
| Length, Inches | 9 3/4 |
| Face, Inches | 2 3/4 x 1 3/4 |
| Width Bit, Inches. . . | 2 1/4 |
| Each | \$0.40 |

BUSH HAMMERS



No. 197—Double Face

Solid Cast Steel, Oil Finish, Regular Cut, One End 25 Teeth, Other End 36 Teeth.

| | | | | |
|--------------------|--------|-------|------|-------|
| Weight, Lbs. . . . | 5 | 6 | 7 | 8 |
| Length, In. . . . | 6 1/2 | 6 3/4 | 7 | 7 1/4 |
| Face, In. | 1 3/4 | 1 3/4 | 2 | 2 1/4 |
| Each | \$1.00 | 1.00 | 1.00 | 1.00 |

STONE AXES



No. 55—Double Bit

Solid Cast Steel, Oil Finish.

| | | | |
|--------------------|--------|-------|--------|
| Weight, Lbs. . . . | 6 | 8 | 10 |
| Length, Inches. . | 8 | 9 | 10 1/2 |
| Width Bit, In. . . | 2 1/2 | 2 3/4 | 3 |
| Each | \$0.50 | .50 | .50 |

CROW BARS



No. 1160—Wedge Point

Solid Cast Steel, Oil Finish.

| Weight, Lbs. | 10 | 12 | 14 | 16 | 18 |
|------------------------|--------|---------|-------|---------|-------|
| Length, Feet | 4 | 4 1/2 | 4 3/4 | 4 11/12 | 5 |
| Size of Square, Inches | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 |
| Each | \$1.60 | 1.90 | 2.25 | 2.55 | 2.90 |
| Weight, Lbs. | 20 | 22 | 24 | 30 | |
| Length, Feet | 5 1/2 | 5 11/12 | 5 3/4 | 6 | |
| Size of Square, Inches | 1 3/8 | 1 1/2 | 1 3/4 | 1 3/4 | |
| Each | \$3.20 | 3.50 | 3.85 | 4.80 | |



No. 1161—Pinch Point

Solid Cast Steel, Oil Finish.

| Weight, Lbs. | 10 | 12 | 14 | 16 | 18 |
|------------------------|--------|---------|-------|---------|-------|
| Length, Feet | 4 | 4 1/2 | 4 3/4 | 4 11/12 | 5 |
| Size of Square, Inches | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 |
| Each | \$1.60 | 1.90 | 2.25 | 2.55 | 2.90 |
| Weight, Lbs. | 20 | 22 | 24 | 30 | |
| Length, Feet | 5 1/2 | 5 11/12 | 5 3/4 | 6 | |
| Size of Square, Inches | 1 3/8 | 1 1/2 | 1 3/4 | 1 3/4 | |
| Each | \$3.20 | 3.50 | 3.85 | 4.80 | |

TELEGRAPH DIGGING BARS



No. 1160C—Round Point

Solid Cast Steel, Oil Finish.

| Length, Feet | 6 | 8 |
|------------------|--------|--------|
| Diameter, Inches | 1 1/2 | 1 3/4 |
| Weight, Lbs. | 20 1/2 | 27 1/2 |
| Each | \$2.80 | 4.00 |

WRECKING BARS

LEETONIA



Gooseneck Pattern

Drop Forged Octagon Steel, with Claw and Chisel Ends, Black Finish.

| Nos. | 112 | 118 | 124 | 130 | 136 |
|--------------------|--------|-------|------|-------|-------|
| Length, Inches | 12 | 18 | 24 | 30 | 36 |
| Diameter, Inches | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 |
| Weight Dozen, Lbs. | 8 | 18 | 37 | 47 | 53 |
| Per Dozen | \$2.10 | 3.50 | 5.50 | 6.75 | 8.50 |

STANLEY



Duplex Pattern

Drop Forged Hexagon Steel Black Finish with Red Goose Neck, Polished Bit, Both Ends Slotted to pull nails.

| Nos. | 240 | 300 |
|--------------------|---------|-------|
| Length, Inches | 24 | 30 |
| Diameter, Inches | 1 3/4 | 2 |
| Weight Dozen, Lbs. | 46 | 52 |
| Per Dozen | \$15.00 | 16.80 |

SHIP OR TOP MAULS



No. 241—Standard Pattern

Solid Cast Steel, Oil Finished, Polished Face.

| Weight, Lbs. | 4 | 5 | 6 |
|--------------------|--------|-------|-------|
| Length, Inches | 8 1/4 | 8 3/4 | 9 |
| Small Face, Inches | 3/4 | 7/8 | 1 |
| Large Face, Inches | 1 1/4 | 1 1/2 | 1 3/4 |
| Per Pound | \$0.42 | .42 | .42 |

RAILROAD TRACK MAULS



No. 238—Regular Pattern

Solid Cast Steel, Oil Finished, Polished Faces.

| Weight, Lbs. | 6 | 7 | 8 | 9 | 10 |
|--------------------|--------|-------|--------|-------|--------|
| Length, Inches | 9 1/2 | 10 | 10 1/2 | 11 | 11 1/4 |
| Small Face, Inches | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 |
| Large Face, Inches | 1 1/2 | 1 3/4 | 1 3/4 | 1 3/4 | 1 3/4 |
| Per Pound | \$0.30 | .30 | .30 | .30 | .30 |

CAR MOVERS

SAMSON



Compound Leverage, Single Spur, Top Grip

Annealed Malleable Iron Castings, Refined Crucible Steel Spur, with Four Sharp Edges, Tool Steel Spring, Hard Maple Handle.

Each
Samson—5 1/2 ft. Long, Complete with One Extra Spur, Weight Each 15 Lbs. \$8.00

The Samson Car Mover is the only car mover made with a tool steel spring for releasing the spur from the rail, thus permitting the mover to slide easily, on the rail without wear or injury to the spur. The principle is correct. The Samson Car Mover has 100 per cent pushing movement—no exertion wasted in lifting the wheel, works un-failingly on wet and slippery rails—up-grade or on a curve.

With a Samson one man can move a loaded or empty car quickly and with a minimum amount of exertion.

RAIL BENDERS

JIM CROW



Without Lever

Made from best grade Open Hearth Steel, Machine Cut Square, Thread, Steel Screw.

Most compact and simplest device for bending and straightening light rails and car irons.

| No. | 3 |
|------------------------|---------|
| Capacity Rails, Lbs. | 75 |
| Span of Claws, Inches | 24 |
| Diameter Screw, Inches | 2 1/2 |
| Hole for Lever, Inches | 1 1/4 |
| Weight Each, Lbs. | 130 |
| Each | \$48.00 |

TRACK LEVEL BOARDS



Fitted with Adjustable Index to Level

Thoroughly Seasoned Hard Maple, Oiled.

Each
No. 367—4 ft. 8 1/2 in. Long, 1 1/4 in. Thick, Weight 9 Lbs. \$8.00

RAILROAD OR CLAY PICKS

IRON CITY



No. 296—Adze Eye

Soft Steel Body, Cast Steel Points, Japanned Finish.

| | | | |
|----------------------|---------|--------|--------|
| Weights Each, Lbs. | 5 to 6 | 6 to 7 | 7 to 8 |
| Per Dozen | \$14.00 | 15.00 | 16.00 |
| Two Dozen in a Case. | | | |

DRIFTING PICKS

IRON CITY



Adze Eye

Soft Steel Body, Cast Steel Points, Japanned Finish.

| | |
|------------------------------------|-----------|
| No. 282—Size 4, Weight Each 5 Lbs. | Per Dozen |
| Two Dozen in a Box. | \$18.00 |

COAL PICKS

FLAT PATTERN



No. 3110—Soft Bessemer Steel Eye

Tool Steel Points, Oil Finish.

| | | | | | |
|---------------------|--------|------|-------|-------|------|
| Weight Each, Lbs. | 1 1/4 | 2 | 2 1/4 | 2 1/2 | 3 |
| Per Dozen | \$8.50 | 8.50 | 9.00 | 9.00 | 9.50 |
| Two Dozen in a Box. | | | | | |

STONE PICKS



No. 294—For Quarry Use

One Piece Best Grade Steel, Oil Finish.

| | | | |
|-----------------------|---------|-------|--------|
| Weights, Lbs. | 6 | 8 | 10 |
| Length Cutter, Inches | 11 | 13 | 13 1/2 |
| Width at Eye, Inches | 2 | 2 1/4 | 2 3/4 |
| Per Dozen | \$17.00 | 19.00 | 22.00 |

MATTOCKS

IRON CITY



No. 425—Short Cutter

Soft Steel Body, Cast Steel Points, Japanned Finish.

| | | | |
|-----------------------|---------|-------|-------|
| Width Blade, Inches | 3 | 3 1/2 | 4 |
| Length Cutter, Inches | 4 1/2 | 4 1/2 | 4 1/2 |
| Weight Each, Lbs. | 5 | 5 1/2 | 5 1/2 |
| Per Dozen | \$16.00 | 16.50 | 16.50 |
| Two Dozen in a Case. | | | |



No. 424—Long Cutter

| | | | |
|-----------------------|---------|-------|-------|
| Width Blade, Inches | 3 | 3 1/2 | 4 |
| Length Cutter, Inches | 5 1/2 | 5 1/2 | 5 1/2 |
| Weight Each, Lbs. | 5 | 6 | 6 |
| Per Dozen | \$16.00 | 17.00 | 17.00 |
| Two Dozen in a Case. | | | |

GRUB HOES

IRON CITY

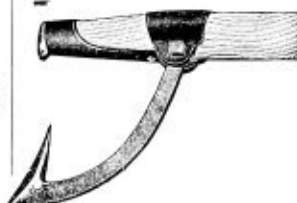


No. 440—Western Pattern

Fine Quality Cast Steel, Japanned Finish.

| | | |
|----------------------|---------|-------|
| Sizes | 1 | 2 |
| Width Blade, Inches | 3 3/4 | 4 |
| Weight Each, Lbs. | 3 1/2 | 4 |
| Per Dozen | \$13.00 | 14.00 |
| Two Dozen in a Case. | | |

CANT HOOKS



Duck Bill Hook

Malleable Iron Clasp and Extension Toe Ring, Hand Hammered Crucible Steel Duck Bill, Painted Iron Parts, 2 1/2 in. Diameter Rock Maple Handles.

| | |
|--|---------|
| No. 288—4 1/2 ft. Handle, Weight Per Dozen | 96 |
| Lbs. | \$33.20 |

PEAVIES

Duck Bill Hook

Malleable Iron Split Rib Socket, Hand Hammered Crucible Steel Duck Bill, Hand Forged Steel Pick, Painted Iron Parts, Rock Maple Handles.



| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 4 | 5 | 6 |
| Length Handle, Feet | 4 | 4 1/2 | 5 |
| Diameter Handle, Inches | 2 1/2 | 2 1/2 | 2 1/2 |
| Weight Per Dozen, Lbs. | 114 | 118 | 122 |
| Per Dozen | \$37.80 | 39.00 | 40.00 |

TIMBER CARRIERS



Steel Swivel Bolt

Japanned Malleable Iron Clasp, Crucible Steel Duck Bill Hooks, Rock Maple Handles.

| | | |
|---|----------|---------|
| No. 425—4 ft. x 2 1/2 in. Handle, Weight Per Dozen | 106 Lbs. | \$36.90 |
| No. 770—Extra Handles, 4 ft. Long, 2 1/2 in. Diameter, Weight Per Dozen 48 Lbs. | | 8.80 |

These carriers are fitted with swivel to permit carrying timber through narrow passageways. For handling railroad ties, telegraph poles, timbers, etc. Will grapple any thing from 3 to 16 inches.

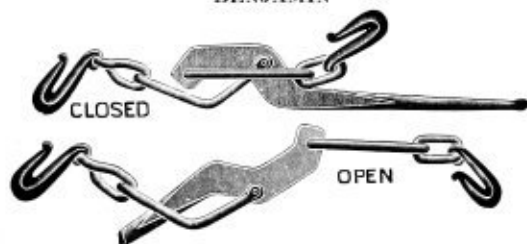
PEAVEY AND CANT HOOK HANDLES



| | | | | |
|---|--------|-------|-------|-------|
| Selected Rock Maple, 2 1/2 in. Diameter | | | | |
| Nos. | 703 | 704 | 705 | 706 |
| Length, Feet | 4 | 4 1/2 | 5 | 5 1/2 |
| Weight Per Dozen, Lbs. | 46 | 51 | 56 | 61 |
| Per Dozen | \$8.60 | 9.50 | 10.60 | 11.70 |

LOAD BINDERS

BENJAMIN



Malleable Iron

For Binding Logs, Lumber, Hay, Pipe and Loads of Every Description.

No. 1—Takes Up 5 in. of Slack in Chain, Weight Per Dozen
Each 15 Lbs. \$28.00

WOOD SPLITTING WEDGES



No. 1515—Straight Bit

Solid Cast Steel, Fluted, Oil Finish.

| | | | |
|---------------------|--------|-------|-------|
| Weight, Lbs. | 3 | 4 | 5 |
| Length, Inches | 7 1/2 | 8 1/2 | 9 |
| Head, Inches | 1 1/2 | 1 3/4 | 1 3/4 |
| Bit, Inches | 2 | 2 1/4 | 2 3/4 |
| Each | \$0.50 | .60 | .70 |

These wedges are thicker than those known as falling wedges. They are mainly used for splitting logs, the various widths of wedges being adapted for woods of varying hardness.

COAL WEDGES



No. 272—Standard Pattern

Solid Cast Steel, Black Oil Finish

| | | | |
|-------------------------|-------------|-----------|---------------|
| Weight, Lbs. | 2 | 2 1/2 | 3 |
| Length, Inches | 9 1/2 | 9 3/4 | 10 1/2 |
| Size Steel, Inches | 1 1/2 x 7/8 | 1 1/4 x 1 | 1 1/2 x 1 1/4 |
| Each | \$0.35 | .45 | .55 |

STONE WEDGES



No. 402—Short Pattern

Solid Cast Steel, Black Oil Finish.

| | | | | |
|-------------------------|--------|-------|-------|-------|
| Weight, Lbs. | 2 | 3 | 4 | 5 |
| Length, Inches | 4 3/4 | 5 1/4 | 6 1/4 | 7 |
| Size Steel, Inches | 1 1/2 | 1 3/4 | 1 3/4 | 1 3/4 |
| Each | \$0.45 | .60 | .75 | .90 |

HANDLE WEDGES

SYRACUSE



Before Driving.

After Driving.

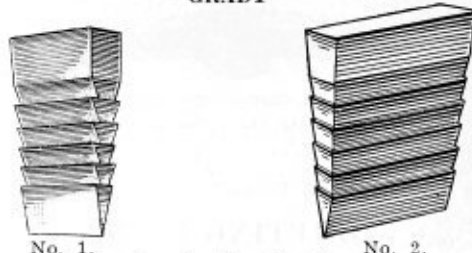
Will Not Come Out or Loosen

Per Gross

No. 18—3/8 in. Long \$3.00
One Gross in a Box with Display Card.

HANDLE WEDGES

GRADY



No. 1.

No. 2.

Non-Rusting Metal

Non-Corrosive, Tremendous Holding Qualities on account of the Hook Corrugation.

No. 1—For Hammers and Hatchets..... \$0.60
No. 2—For Axes and Sledges..... 1.20
Three Dozen in Display Carton.

SAWYER PATENT



No. 1742.

No. 1747.

Illustrations Half Size

Per Gross

No. 1742—For Axes, One Dozen in a Box, Weight
Per Gross 15 1/2 Lbs..... \$8.00
No. 1747—For Hatchets, Three Dozen in a Box, Wt.
Per Gross 4 1/2 Lbs..... 5.00

SAWYER REGULAR

Illustrations Half Size. For Large Axes

Per Gross

No. A—2 in. Long, 1 1/2 in. Wide, Wt.
Per Gross 11 1/2 Lbs..... \$7.00

One Dozen in a Box.

For Axes and Large Hammers

Per Gross

No. B—1 1/2 in. Long, 1 in. Wide, Wt.
Per Gross 5 1/2 Lbs..... \$5.75

Three Dozen in a Box.

For Axes and Large Hammers

Per Gross

No. C—1 1/2 in. Long, 1 1/2 in. Wide, Wt.
Per Gross 4 1/2 Lbs..... \$5.25

Three Dozen in a Box.

For Hammers and Hatchets

Per Gross

No. D—1 1/4 in. Long, 3/4 in. Wide, Wt.
Per Gross 2 3/4 Lbs..... \$5.00

Three Dozen in a Box.

For Hatchets and Hammers

Per Gross

No. E—3/8 in. Long, 3/4 in. Wide, Wt.
Per Gross 2 3/4 Lbs..... \$4.50

Three Dozen in a Box.

For Light Hatchets and Hammers

Per Gross

No. G—3/8 in. Long, 1/2 in. Wide, Wt.
Per Gross 1 3/4 Lbs..... \$3.75

Three Dozen in a Box.

BLACKSMITHS ANVIL TOOLS

TOP AND BOTTOM SWAGES



Solid Forged Steel, Oil Finish

Size Given is Measured Across Face.

Top Swages have Oval Eye for Handle.

Used for Shaping, Sizing and Smoothing Rough Iron.

No. 29.



No. 30.

No. 29—Top Swages

| | | | | | | |
|-------------------|--------|-------|-------|-------|-------|-------|
| Size, Inches | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Weight Each, Lbs. | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 3 1/4 | 3 1/4 |
| Each | \$1.35 | 1.35 | 1.35 | 1.40 | 1.40 | 1.60 |
| Size, Inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | |
| Weight Each, Lbs. | 3 1/4 | 3 3/4 | 4 1/4 | 4 3/4 | 4 3/4 | |
| Each | \$1.60 | 1.80 | 2.00 | 2.15 | 2.40 | |

No. 30—Bottom Swages

| | | | | | | |
|-------------------|--------|-------|-------|-------|-------|-------|
| Size, Inches | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Weight Each, Lbs. | 2 | 2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 |
| Each | \$1.35 | 1.35 | 1.35 | 1.40 | 1.40 | 1.60 |
| Size, Inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | |
| Weight Each, Lbs. | 3 | 3 | 3 1/2 | 4 | 4 1/2 | |
| Each | \$1.60 | 1.80 | 2.00 | 2.15 | 2.40 | |

TOP AND BOTTOM FULLERS

Solid Forged Steel, Oil Finish

Sizes Given are Measured Across Face.

Top Fullers have Oval Eye for Handle.

Used for Necking and Grooving Forgings, and also for Drawing Down a Forging to a Smaller Size.



No. 15.

No. 15—Top Fullers

| | | | | | | |
|-------------------|--------|-------|-------|-------|-------|------|
| Size, Inches | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Weight Each, Lbs. | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 3 |
| Each | \$1.35 | 1.35 | 1.35 | 1.40 | 1.40 | 1.60 |
| Size, Inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | |
| Weight Each, Lbs. | 3 | 3 1/2 | 3 1/2 | 4 | 4 1/2 | |
| Each | \$1.60 | 1.80 | 2.00 | 2.15 | 2.40 | |

No. 16—Bottom Fullers

| | | | | | | |
|-------------------|--------|-------|-------|-------|-------|-------|
| Size, Inches | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Weight Each, Lbs. | 2 1/4 | 2 1/4 | 2 1/4 | 2 1/2 | 2 1/2 | 2 1/2 |
| Each | \$1.35 | 1.35 | 1.35 | 1.40 | 1.40 | 1.60 |
| Size, Inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | |
| Weight Each, Lbs. | 2 1/2 | 3 1/2 | 3 1/2 | 4 | 4 1/2 | |
| Each | \$1.60 | 1.80 | 2.00 | 2.15 | 2.40 | |

No. 16.

SQUARE FLATERS

No. 13—Solid Forged Steel, Oil Finish

For Smoothing and Finishing Flat Forgings.

| | | | | |
|-------------------|--------|-------|-------|-------|
| Size Face, Inches | 2 | 2 1/2 | 3 | 3 1/2 |
| Weight Each, Lbs. | 2 | 3 1/4 | 4 1/2 | 6 |
| Each | \$1.50 | 2.00 | 2.55 | 3.50 |

SET HAMMERS

No. 27—Solid Forged Steel, Oil Finish

For Setting Down the Metal in a Forging to Form a Square Corner.

| | | | | |
|-------------------|--------|-------|-------|-------|
| Size Face, Inches | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Weight Each, Lbs. | 2 | 3 1/4 | 4 1/2 | 5 1/2 |
| Each | \$1.20 | 1.55 | 1.90 | 2.40 |



HARDIES

No. 18—Solid Forged Steel, Oil Finish

This Tool Sets in the Anvil and is Used for Cutting off Forgings.

| | | | |
|--------------------|--------|-------|-------|
| Size Shank, Inches | 1/2 | 5/8 | 3/4 |
| Width Bit, Inches | 1 1/2 | 1 1/2 | 1 1/2 |
| Weight Each, Lbs. | 5 1/2 | 1 | 1 1/4 |
| Each | \$0.70 | .70 | .80 |

| | | | | |
|--------------------|--------|-------|-------|-------|
| Size Shank, Inches | 7/8 | 1 | 1 1/2 | 1 3/4 |
| Width Bit, Inches | 2 | 2 1/4 | 2 1/4 | 2 1/2 |
| Weight Each, Lbs. | 1 1/4 | 2 | 2 1/2 | 2 3/4 |
| Each | \$0.90 | 1.00 | 1.30 | 1.40 |

BLACKSMITHS TOOLS

ROUND PUNCHES



No. 23—Solid Forged Steel, Oil Finish

| | | | |
|----------------------|--------|-------|-------|
| Size Point, Inches | 1/2 | 5/8 | 3/4 |
| Stock at Eye, Inches | 1 1/4 | 1 1/4 | 1 1/2 |
| Length, Inches | 7 3/4 | 7 3/4 | 7 3/4 |
| Weight Each, Lbs. | 2 | 2 1/2 | 2 1/2 |
| Each | \$1.05 | 1.30 | 1.35 |

COLD CUTTERS



No. 5—Solid Forged Steel, Oil Finish

| | | | | |
|----------------------|--------|-------|-------|-------|
| Size | 1 | 1 1/2 | 1 3/4 | 1 3/4 |
| Cutting Edge, Inches | 1 | 1 1/2 | 1 1/4 | 1 3/8 |
| Length, Inches | 4 3/8 | 5 1/4 | 5 3/8 | 6 3/8 |
| Weight Each, Lbs. | 1 1/4 | 1 1/2 | 2 | 2 1/2 |
| Each | \$1.05 | 1.05 | 1.05 | 1.30 |

| | | | | |
|----------------------|--------|-------|-------|-------|
| Size | 1 1/2 | 1 3/8 | 1 3/4 | 2 |
| Cutting Edge, Inches | 1 1/2 | 1 3/8 | 1 3/4 | 2 |
| Length, Inches | 6 1/4 | 6 3/8 | 7 3/8 | 7 3/8 |
| Weight Each, Lbs. | 3 | 4 | 5 | 6 |
| Each | \$1.50 | 2.00 | 2.45 | 3.00 |

HOT CUTTERS



No. 6—Solid Forged Steel, Oil Finish

| | | | | |
|----------------------|--------|-------|-------|-------|
| Size | 1 | 1 1/2 | 1 3/4 | 1 3/4 |
| Cutting Edge, Inches | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| Length, Inches | 6 | 6 3/4 | 7 3/8 | 7 3/8 |
| Weight Each, Lbs. | 1 | 1 1/2 | 2 | 2 1/2 |
| Each | \$1.05 | 1.05 | 1.05 | 1.30 |

| | | | | |
|----------------------|--------|-------|-------|--------|
| Size | 1 1/2 | 1 3/8 | 1 3/4 | 2 |
| Cutting Edge, Inches | 2 | 2 1/2 | 2 1/4 | 2 1/2 |
| Length, Inches | 8 1/4 | 9 | 9 3/4 | 10 1/4 |
| Weight Each, Lbs. | 3 | 4 | 5 | 6 |
| Each | \$1.50 | 2.00 | 2.45 | 3.00 |

BUTTON HEAD RIVET SETS



No. 106—Solid Forged Steel, Oil Finish

| | | | | | |
|----------------------|--------|-------|-------|-------|-------|
| Size | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Diameter Cup, Inches | 3/4 | 7/8 | 1 1/8 | 1 1/4 | 1 1/2 |
| Length, Inches | 6 1/4 | 6 1/4 | 7 | 7 | 7 |
| Weight Each, Lbs. | 3 1/2 | 3 1/2 | 5 1/2 | 5 1/2 | 7 |
| Each | \$2.70 | 2.70 | 3.95 | 3.95 | 5.05 |

Size indicates rivet for which tool is intended.

CREASERS



No. 33—Forged Steel, Natural Finish

| | | | | |
|--------------|--------|------|------|-------|
| Size, Inches | 3/4 | 7/8 | 1 | 1 1/8 |
| Each | \$1.00 | 1.00 | 1.00 | 1.00 |

One-half Dozen in a Box.

FORE PUNCHES



Forged Steel, Natural Finish

| | |
|-------------------------------------|-----------|
| No. 34—Assorted 4 to 4 1/2 in. Long | Per Dozen |
| One-half Dozen in a Box | \$9.00 |

FARRIERS PRITCHELS



Forged Octagon Tool Steel, Natural Finish

No. 30—12 in. Long. $\frac{5}{8}$ in. Diameter, Weight Each Per Dozen
1 Lb. \$6.00

One Dozen in a Box.

FARRIERS BUFFERS



Forged Steel, Natural Finish

No. 39—6 in. Long. \$9.00

One-half Dozen in a Box.

FARRIERS SOLE KNIVES



Forged Steel, Polished Face

No. 35—8 in. Long. \$9.00

One-half Dozen in a Box.

TIRE MEASURING WHEELS



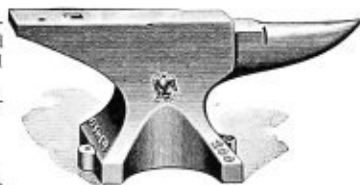
Very Handy for Accurately
Measuring the Length of Tires.
Drop Forged Steel Wheel,
Graduated to $\frac{1}{8}$ of an Inch.

No. 606—24 in. Circumference,
8 in. Diameter,
Length Over All 13
in., Weight Each 1 $\frac{1}{2}$
Lbs. \$3.00

One in a Box.

ANVILS

EAGLE



Tool Steel Face

One-Piece Face, Perfectly
Welded, true and hard
temper that will not
come off or settle.

Horn of tough untempered
steel.

Nos. 1 2
Wt., Lbs. 8 20
Each \$5.50 8.80

| Nos. | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----------|---------|-------|-------|-------|-------|-------|-------|
| Wt., Lbs. | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| Each | \$12.00 | 13.75 | 16.00 | 18.00 | 20.25 | 22.50 | 25.00 |

ARM AND HAMMER BRAND



Wrought Iron
Body, Tool Steel
Face

Unequaled for superior
shape, graceful design,
stability on the block
and absence of
superfluous weight in base.

| Nos. | 80 | 100 | 125 | 150 | 175 | 200 | 250 | 300 |
|--------------|--------|-----|-----|-----|-----|-----|-----|-----|
| Weight, Lbs. | 80 | 100 | 125 | 150 | 175 | 200 | 250 | 300 |
| Per Pound | \$0.30 | | | | | | | |

FORGES

CHAMPION EUREKA GEARED



No. 147.

Champion Eureka Cut-Geared
Forge with larger hearth than
is usually put on low-priced
forges, but it is our desire to
give the user a forge beyond the
ordinary.

These improved forges are
equipped with a cut-geared
crank-driven blower, helical
gearing being used to give
smooth running and noiseless
operation. The gear ratio gives
48 revolutions of the blast wheel
to one turn of the crank, making
a strong, steady, high pressure
blast with smooth easy
turning—crank turning either direction. The gear case
is oil-tight and dust-proof, giving modern advantages over
the old lever types of forges, making it especially desired
for general medium light work, such as Repairers, Garages,
Farmers, etc.

With Shield

Each

No. 147—Hearth 22 in., Fan 8 in., Height 30 in.,
Weight Each 85 Lbs. \$24.00

With Half Hood

Each

No. 148—Hearth 22 in., Fan 8 in., Height 30 in.,
Weight Each 90 Lbs. \$27.00

CHAMPION EUREKA GEARED
AGRICULTURAL

Champion Eureka Agricultural
Forge is equipped with a cut-geared
crank-driven blower, helical gearing
being used to give smooth running
and noiseless operation. The gear
ratio gives 48 revolutions of the blast
wheel to one turn of the crank, making
a strong, steady, high pressure
blast with smooth easy turning—
crank turning either direction. The
gear case is oil-tight and dust-proof,
giving modern advantages over the
old lever and wheel type forge, making
them very satisfactory forges for
general light and medium repair work, such as Garages,
Farmers, or any place where a light portable forge is desired.



No. 145.

With Shield

Each

No. 145—Hearth 18 in., Fan 8 in., Height 30 in.,
Weight 70 Lbs. \$14.00

With Half Hood

Each

No. 146—Hearth 18 in., Fan 8 in., Height 30 in.,
Weight 75 Lbs. \$16.00

CHAMPION MIDWAY

With Cast Iron Hearth



No. 73.

The Champion "Midway" or
Cross Spiral-Geared Forge has
direct drive gearing. It is a well
built, strong and substantial
Forge, suitable for Bolt-makers,
Bridge Builders, Railway
Contractors, Miners, etc.

With Half Hood

Each

No. 73—23x35 in. Diameter
Hearth, 10 in.
Fan, 30 in. High,
Weight 255 Lbs. \$40.00

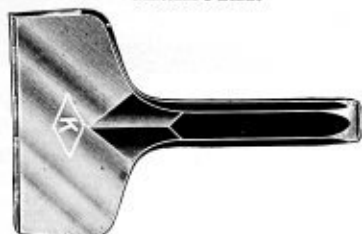
With Shield

Each

No. 72—23x35 in. Diameter Hearth, 10 in. Fan, 30
in. High, Weight 240 Lbs. \$43.00

BRICK CHISELS

KRAEUTER



No. 502—Single Bevel

Drop Forged Steel, Natural Black Finish, with Polished Edges.

| | | | |
|-------------------|--------|-------|-------|
| Width, Inches | 3 | 3 1/2 | 4 |
| Length, Inches | 6 3/4 | 6 3/4 | 7 |
| Weight Each, Lbs. | 1 1/4 | 1 3/8 | 1 3/4 |
| Per Dozen | \$7.00 | 7.50 | 9.50 |

After this tool is trip hammered, it is die forged to give it graceful lines. The line of the back is perfectly straight.

One-half Dozen in a Box.

STAR DRILL HOLDERS

DIAMOND N



The taper shank of the drill point is carefully machined to fit the holder. The traverse hole in the handle is to admit a tapered pin which drives out the point when it is to be removed. The advantages in this drill over the one-piece regular drill is that in the smaller sizes, a better grip can be had, and a harder blow can be struck.

No. 201—Holder Only, without Points..... Per Dozen \$24.00

No. 201S—Set, Consists of 1 Holder, 1 Ejector and 6 Assorted Drill Points, 1 Each 1/4, 1/8, 3/16, 1/16 and 5/32 in. Per Set \$6.00

Extra Drill Points for Diamond N Drill Holder

| | | | | | | | |
|-----------------|--------|------|-------|-------|-------|-------|-------|
| Dia. Point, In. | 1/4 | 1/8 | 3/16 | 1/16 | 1/2 | 5/8 | 3/4 |
| Length, In. | 4 1/2 | 4 | 4 1/2 | 4 1/2 | 4 | 5 | 6 1/4 |
| Per Dozen | \$8.50 | 8.50 | 8.50 | 9.00 | 10.00 | 12.00 | 14.00 |

BRICK DRILLS

"DIEXCO" EXTENSION



Turned from Solid Bar Tool Steel

Carefully tempered so as to give correct combination of hardness for the cutting edges and sufficient ductility to prevent breaking under the hardest blow of hammer.

| | | | | |
|-----------------------|--------|------|------|------|
| Nos. | 2 | 3 | 4 | 5 |
| For Hole, Inches | 1/8 | 1/4 | 3/8 | 1/2 |
| Take Gas Pipe, Inches | 1/8 | 1/4 | 3/8 | 1/2 |
| Per Dozen | \$6.00 | 6.00 | 6.00 | 6.00 |

| | | | |
|------------------------|--------|-------|-------|
| Nos. | 6 | 7 | 8 |
| For Hole, Inches | 1 1/4 | 1 1/2 | 2 |
| Takes Gas Pipe, Inches | 3/4 | 3/4 | 1 |
| Per Dozen | \$8.40 | 18.00 | 24.00 |

These Drill Heads are threaded to fit the threaded end of gas pipe of any convenient length.

One Dozen in a Box.

BRICK AND STONE DRILLS

DIAMOND FOUR POINT STAR



High Grade Octagon Drill Rod

Fitted for Uniformity and Special Heat Treated.

8 Inches Long

| | | | | | |
|----------------------------|--------|-------|-------|-------|-------|
| Diam. Face, Inches | 1/4 | 1/2 | 3/4 | 1 | 1 1/2 |
| For Expansion Bolt, Inches | 1 1/2 | 1 1/2 | 2 1/4 | 2 1/4 | 3 1/4 |
| Weight Dozen, Lbs. | 1 1/2 | 1 1/2 | 2 1/4 | 2 1/4 | 3 1/4 |
| Per Dozen | \$8.25 | 8.25 | 8.25 | 8.70 | 9.65 |

| | | | | |
|----------------------------|---------|-------|-------|-------|
| Diam. Face, Inches | 5/8 | 3/4 | 7/8 | 1 |
| For Expansion Bolt, Inches | 3/4 | 1 1/2 | 5/8 | 5/8 |
| Weight Dozen, Lbs. | 4 | 5 1/2 | 8 3/4 | 13 |
| Per Dozen | \$11.65 | 13.70 | 15.30 | 17.00 |

12 Inches Long

| | | | | | | |
|-------------------------|--------|-------|-------|-------|-------|-------|
| Diam. Face, In. | 1/4 | 1/2 | 3/4 | 1 | 1 1/2 | 5/8 |
| For Expansion Bolt, In. | 1 1/2 | 2 1/4 | 3 1/2 | 3 1/2 | 5 | 6 1/2 |
| Wt. Dozen, Lbs. | 1 1/2 | 2 1/4 | 3 1/2 | 3 1/2 | 5 | 6 1/2 |
| Per Dozen | \$8.50 | 8.50 | 8.50 | 9.00 | 10.00 | 12.00 |

| | | | | | |
|-------------------------|---------|-------|-------|-------|-------|
| Diam. Face, In. | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 |
| For Expansion Bolt, In. | 1 1/2 | 5/8 | 5/8 | 3/4 | 3/4 |
| Wt. Dozen, Lbs. | 8 1/4 | 13 | 19 | 25 | 30 |
| Per Dozen | \$14.00 | 16.00 | 18.00 | 24.00 | 30.00 |

18 Inches Long

| | | | | | | |
|-------------------------|---------|-------|-------|-------|-------|-------|
| Diam. Face, In. | 1/4 | 1/2 | 3/4 | 1 | 1 1/2 | 5/8 |
| For Expansion Bolt, In. | 1 1/2 | 2 1/4 | 3 1/2 | 3 1/2 | 5 | 6 1/2 |
| Wt. Dozen, Lbs. | 1 1/2 | 2 1/4 | 3 1/2 | 3 1/2 | 5 | 6 1/2 |
| Per Dozen | \$11.00 | 11.00 | 11.00 | 11.50 | 12.50 | 15.00 |

| | | | | | | |
|-------------------------|---------|-------|-------|-------|-------|-------|
| Diam. Face, In. | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 |
| For Expansion Bolt, In. | 1 1/2 | 5/8 | 5/8 | 3/4 | 3/4 | 3/4 |
| Wt. Dozen, Lbs. | 12 1/4 | 20 | 28 | 38 | 50 | 68 |
| Per Dozen | \$17.50 | 20.00 | 22.50 | 28.00 | 35.00 | 56.00 |

24 Inches Long

| | | | | | | |
|-------------------------|---------|-------|-------|-------|-------|-------|
| Diam. Face, In. | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 5/8 |
| For Expansion Bolt, In. | 1 1/2 | 2 1/4 | 3 1/2 | 3 1/2 | 5 | 6 1/2 |
| Wt. Dozen, Lbs. | 8 | 8 | 9 1/4 | 14 | 20 | 27 |
| Per Dozen | \$13.50 | 14.00 | 15.00 | 17.50 | 20.00 | 22.50 |

| | | | | | |
|-------------------------|---------|-------|-------|-------|--------|
| Diam. Face, In. | 1 | 1 1/4 | 1 1/4 | 1 1/2 | 2 |
| For Expansion Bolt, In. | 1 1/2 | 3/4 | 3/4 | 1 | 1 |
| Wt. Dozen, Lbs. | 38 | 50 | 63 | 75 | 96 |
| Per Dozen | \$25.00 | 32.00 | 40.00 | 62.00 | 120.00 |

MARBLE DRILLS



No. 10—For Brace

Tool Steel, Natural Finish, Hand Forged.

| | | | | | |
|------------------|--------|------|------|------|------|
| Size Bit, Inches | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 |
| Length, Inches | 5 | 5 | 5 | 5 | 5 |
| Per Dozen | \$2.50 | 2.50 | 2.50 | 2.50 | 2.50 |

One Dozen in a Box.

BULL POINT BARS



BULL POINT BAR

For Breaking Concrete Side Walks, Walls, Etc.

High Grade Octagon Steel, Oil Finish.

| | | | | |
|------------------|------|------|-------|--------|
| Nos. | 378A | 378B | 378C | 378D |
| Diameter, Inches | 3/4 | 1 | 1 1/4 | 1 1/4 |
| Length, Inches | 18 | 18 | 24 | 30 |
| Per Pound | | | | \$0.25 |

STONE CUTTERS TOOLS

HAMMER HEAD POINTS



No. 132—Extra Quality Steel

Natural Finish, 9 in. Long.

| | | |
|-----------------------------|---------------|---------------|
| Diameter Stock, Inches..... | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Weight Per Dozen, Lbs..... | 6 | 12 |
| Per Pound | \$0.60 | .60 |

MALLET HEAD POINTS



No. 136—Extra Quality Steel

Natural Finish, 9 in. Long.

| | | |
|-----------------------------|---------------|---------------|
| Diameter Stock, Inches..... | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Weight Per Dozen, Lbs..... | 6 | 12 |
| Per Pound | \$0.95 | .95 |

HAMMER HEAD PITCHING TOOLS



No. 133—Extra Quality Steel

Natural Finish, 8 in. Long.

| | | |
|----------------------------|--------|----------------|
| Width Blade, Inches..... | 1 | $1\frac{1}{2}$ |
| Weight Per Dozen, Lbs..... | 10 | 15 |
| Per Pound | \$0.70 | .70 |

PLAIN HEAD CHISELS



No. 130—Extra Quality Steel

Natural Finish, $8\frac{1}{2}$ in. Long.

| | | | |
|----------------------------|--------|----------------|----------------|
| Width Blade, Inches..... | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Weight Per Dozen, Lbs..... | 6 | 6 | 6 |
| Per Pound | \$0.60 | .60 | .60 |

MALLET HEAD CHISEL



No. 134—Extra Quality Steel

Natural Finish, $8\frac{1}{2}$ in. Long.

| | | | |
|----------------------------|--------|----------------|----------------|
| Width Blade, Inches..... | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Weight Per Dozen, Lbs..... | 6 | 6 | 6 |
| Per Pound | \$0.95 | .95 | .95 |

TOOTH CHISELS



No. 135—Extra Quality Steel

Natural Finish, $8\frac{1}{2}$ in. Long.

| | | | |
|----------------------------|--------|----------------|----------------|
| Width Blade, Inches..... | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Weight Per Dozen, Lbs..... | 6 | 6 | 6 |
| Per Pound | \$1.10 | 1.10 | 1.10 |

PLUGGING CHISELS



Forged Steel, Natural Finish

| | |
|---|--------|
| No. 36—10 in. Long, $\frac{5}{8}$ in. Stock, $\frac{1}{4}$ in. Cutting Edge, Weight Per Dozen 8 Lbs..... | \$9.00 |
| One-half Dozen in a Box. | |

COLD CHISELS

KRAEUTER DREADNOUGHT DIEMAKERS



No. 330—Forged Nickel Steel

Perfect Temper, with Edges that Will Last; Black Body, Polished Head and Point.

| | | | | | |
|----------------------|---------------|---------------|----------------|----------------|----------------|
| Cut, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Stock, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length, Inches | 5 | 5 | 5 | 5 | 5 |
| Weight Dozen, Lbs.. | $\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{4}$ | $1\frac{3}{4}$ | $2\frac{3}{4}$ |
| Per Dozen | \$3.00 | 3.00 | 3.50 | 3.80 | 4.50 |

| | | | | | |
|------------------------|----------------|----------------|-----------------|----------------|----------------|
| Cut, Inches | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | $1\frac{1}{2}$ |
| Stock, Inches | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $1\frac{1}{2}$ |
| Length, Inches | $6\frac{1}{2}$ | 7 | 8 | $8\frac{1}{2}$ | 15 |
| Weight Dozen, Lbs..... | 4 | $6\frac{3}{4}$ | $11\frac{1}{2}$ | 15 | 15 |
| Per Dozen | \$5.75 | 6.50 | 8.50 | 10.80 | 10.80 |

 $\frac{1}{8}$ to $\frac{3}{8}$ in., One Dozen; Balance, One-half Dozen in a Box.

EXTRA LONG



Forged Steel, Natural Finish

Extra Quality Finish, Tempered, Polished Bit.

| | | | | | | |
|--------------------|---------------|---------------|---------------|---------------|---------------|-------|
| Nos. | 10 | 20 | 30 | 40 | 50 | 60 |
| Length, Inches ... | 10 | 12 | 12 | 18 | 24 | 24 |
| Width, Inches ... | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 1 |
| Wt. Dozen, Lbs... | 9 | 13 | 18 | 30 | 38 | 66 |
| Per Dozen | \$4.00 | 6.00 | 7.50 | 12.00 | 15.00 | 24.00 |

One-half Dozen in a Box.

ROUND NOSE CHISELS

KRAEUTER



No. 331—Highest Grade Dreadnought Nickel Steel

Black Body, Polished Head and Point.

| | | | | | | |
|------------------|---------------|----------------|----------------|----------------|----------------|----------------|
| Cut, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Stock, Inches .. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Length, Inches.. | 5 | 5 | 5 | $5\frac{3}{4}$ | $6\frac{1}{4}$ | 7 |
| Wt. Dozen, Lbs. | $\frac{3}{4}$ | $1\frac{1}{4}$ | $1\frac{3}{4}$ | $3\frac{3}{4}$ | $6\frac{1}{4}$ | $9\frac{1}{2}$ |
| Per Dozen | \$3.00 | 3.50 | 4.00 | 5.00 | 6.50 | 9.50 |

 $\frac{1}{8}$ to $\frac{1}{4}$ in., One Dozen; $\frac{3}{8}$ to $\frac{1}{2}$ in., One-half Dozen in a Box.

DIAMOND POINT CHISELS

KRAEUTER



No. 332—Highest Grade Dreadnought Nickel Steel

Black Body, Polished Head and Point.

| | | | | | | |
|------------------|---------------|----------------|----------------|----------------|----------------|----------------|
| Cut, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Stock, Inches .. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Length, Inches.. | 5 | 5 | 5 | $5\frac{3}{4}$ | $6\frac{1}{4}$ | 7 |
| Wt. Dozen, Lbs. | $\frac{3}{4}$ | $1\frac{1}{4}$ | $1\frac{3}{4}$ | $3\frac{3}{4}$ | $6\frac{1}{4}$ | $9\frac{1}{2}$ |
| Per Dozen | \$3.00 | 3.50 | 4.00 | 5.00 | 6.50 | 9.50 |

 $\frac{1}{8}$ to $\frac{1}{4}$ in., One Dozen; $\frac{3}{8}$ to $\frac{1}{2}$ in., One-half Dozen in a Box.

Krauter Dreadnought Chisels are forged under drop hammers from an extremely high grade tool steel, the analysis and specifications of which have been proved to give the best results.

CAPE CHISELS

KRAEUTER



No. 335—Highest Grade Dreadnought Nickel Steel

Black Body, Polished Head and Point.

| | | | | | | |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Cut, Inches..... | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Stock, Inches.. | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Length, Inches. | 5 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 7 | 7 $\frac{1}{2}$ |
| Wt. Dozen, Lbs. | $\frac{3}{4}$ | 1 $\frac{1}{4}$ | 2 | 3 $\frac{3}{4}$ | 6 $\frac{1}{4}$ | 9 $\frac{1}{2}$ |
| Per Dozen..... | \$3.00 | 3.50 | 4.00 | 5.00 | 6.50 | 9.50 |
| $\frac{1}{8}$ to $\frac{1}{4}$ in., One Dozen; $\frac{3}{8}$ to $\frac{1}{2}$ in., One-half Dozen in a Box. | | | | | | |

ROUND NOSE CAPE CHISELS

KRAEUTER



No. 345—Highest Grade Dreadnought Nickel Steel

Black Body, Polished Head and Points.

| | | | | |
|--|-----------------|-----------------|-----------------|-----------------|
| Cut, Inches..... | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Stock, Inches..... | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Length, Inches..... | 5 $\frac{1}{2}$ | 6 | 6 $\frac{1}{2}$ | 7 |
| Wt. Per Dozen, Lbs..... | 2 | 3 $\frac{3}{4}$ | 6 $\frac{1}{4}$ | 9 $\frac{1}{2}$ |
| Per Dozen..... | \$4.25 | 5.75 | 6.50 | 9.75 |
| $\frac{1}{8}$ in., One Dozen; $\frac{1}{4}$ to $\frac{1}{2}$ in., One-half Dozen in a Box. | | | | |

KEY LIFTING CHISELS



Forged Steel, Natural Finish

Hardened and Tempered, Polished Head and Bit.

| | | | |
|----------------------------|-----------------|---------------|-----------------|
| Nos. | 134 | 135 | 136 |
| Size, Inches..... | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Length, Inches..... | 5 $\frac{1}{2}$ | 6 | 6 $\frac{1}{2}$ |
| Weight Per Dozen, Lbs..... | 4 | 5 | 6 |
| Per Dozen..... | \$3.50 | 4.50 | 6.00 |

One-half Dozen in a Box.

KEY SEATING CHISELS



Forged Steel, Natural Finish

Hardened and Tempered, Polished Head and Bit.

| | | | |
|----------------------------|-----------------|---------------|-----------------|
| Nos. | 142 | 143 | 144 |
| Size, Inches..... | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Length, Inches..... | 5 $\frac{1}{2}$ | 6 | 6 $\frac{1}{2}$ |
| Weight Per Dozen, Lbs..... | 4 | 5 | 6 |
| Per Dozen..... | \$3.50 | 4.50 | 6.00 |

One-half Dozen in a Box.

ELECTRICIANS CHISELS



For Floor Work

High Grade Tool Steel, Properly Hardened and Tempered, Natural Finish.

No. 75—7 in. Long, 2 $\frac{1}{2}$ in. Wide Face, Weight Per Dozen 7 Lbs.....\$9.00

This chisel has an extremely thin blade, which cuts tongue without marring floor board.

One-half Dozen in a Box.

FLOOR CHISELS

B. M. CO.



No. 60—Drop Forged Steel

Natural Finish, Polished Blade, $\frac{3}{4}$ in. Octagon Stock. For cutting, not for prying. Used by carpenters, plumbers, electricians and other mechanics.No. 60—14 in. Long, 3 in. Wide Face, Weight Per Dozen 22 Lbs.....\$14.00
One-half Dozen in a Box.

No. 65—Drop Forged Steel

Natural Finish, $\frac{3}{4}$ in. Octagon Stock.

Used by carpenters, plumbers, electricians and other mechanics.

No. 65—10 in. Long, 3 in. Wide, Weight Per Dozen 16 Lbs.....\$14.00
One-half Dozen in a Box.

PLUMBERS WOOD CHISELS

KRAEUTER



No. 403—Highest Grade Crucible Steel

Perfect Temper, Highly Polished Face, Bevels and Bit, Black Grip.

| | | | | |
|------------------------|---------------|------------------|------------------|-----------------|
| Cut, Inches..... | $\frac{3}{4}$ | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |
| Stock, Inches..... | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length, Inches..... | 11 | 11 | 11 | 11 |
| Weight Dozen, Lbs..... | 7 | 10 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 15 |
| Per Dozen..... | \$7.50 | 9.00 | 9.50 | 12.00 |

Made with beveled edges and bit, making it easier to operate in heavy wood. The handle is slightly raised to clear the hand when using.

One-half Dozen in a Box.

PLUMBERS WOOD GOUGES



Outside Bevel

High Grade Forged Steel, Natural Finish, Hardened and Tempered.

No. 334—1 in. Wide, 11 $\frac{1}{2}$ in. Long, Weight Per Dozen 8 $\frac{1}{2}$ Lbs.....\$8.00
One-half Dozen in a Box.

PLUMBERS SPRING PACKING CHISELS



Spring Steel

High Grade Crucible Steel, Hardened and Tempered.

No. 317—18 in. Long, $\frac{1}{2}$ in. Octagon Steel, Weight Per Dozen 6 $\frac{1}{2}$ Lbs.....\$8.00
One Dozen in a Package.

PLUMBERS CALKING CHISELS

STUB



For Calking Soil Pipes and Water Mains

High Grade Octagon Steel, Hardened and Tempered.

Per Dozen

No. 306— $\frac{3}{4}$ x $\frac{1}{16}$ in. Blade, $\frac{5}{8}$ in. Stock, $6\frac{1}{2}$ in. Long,
Weight Per Dozen 9 Lbs. \$4.00

REGULAR



For Calking Soil Pipe, Water Mains, etc.

High Grade Octagon Steel, Hardened and Tempered.

Per Dozen

No. 307— $\frac{3}{4}$ in. Face, 7 in. Long, $\frac{3}{4}$ in. Stock, Weight
Per Dozen 9 $\frac{1}{2}$ Lbs. \$4.00

SHORT



For Calking Close to One Edge of Hub

High Grade Octagon Steel, Hardened and Tempered.

Per Dozen

No. 311— $1\frac{1}{2}$ x $\frac{1}{16}$ in. Face, $\frac{3}{4}$ in. Stock, 7 $\frac{3}{4}$ in. Long,
Weight Per Dozen 9 $\frac{1}{2}$ Lbs. \$4.50

RIGHT AND LEFT DOUBLE OFFSET



For Calking in Inaccessible Places

High Grade Octagon Steel, Hardened and Tempered.

Per Dozen

No. 313R—Right Hand, $\frac{3}{4}$ x $\frac{1}{4}$ in. Face, $8\frac{1}{2}$ in. Long,
 $\frac{5}{8}$ in. Stock, Weight Per Dozen 15 $\frac{1}{2}$ Lbs. \$6.50No. 313L—Left Hand, $\frac{3}{4}$ x $\frac{1}{4}$ in. Face, $8\frac{1}{2}$ in. Long,
 $\frac{5}{8}$ in. Stock, Weight Per Dozen 15 $\frac{1}{2}$ Lbs. 6.50

PLUMBERS YARNING CHISELS

REGULAR



For Calking Oakum Into Joints

High Grade Octagon Steel, Hardened and Tempered.

Per Dozen

No. 308— $\frac{3}{4}$ x $\frac{1}{16}$ in. Point, 5 in. Blade, $10\frac{1}{2}$ in. Long
Over All, Weight Per Dozen 10 $\frac{1}{2}$ Lbs. \$4.00

EXTRA LONG



For Working Oakum Into Joints by Hand

High Grade Octagon Steel, Hardened and Tempered.

Per Dozen

No. 309— $\frac{3}{4}$ x $\frac{1}{16}$ in. Point, 10 in. Blade, $15\frac{1}{2}$ in. Long,
Over All, $\frac{3}{4}$ in. Stock, Wt. Per Dozen 8 $\frac{1}{2}$ Lbs. \$5.00

All Above, One Dozen in a Package.

PLUMBERS GASKET CHISELS

LONG



With Curved Face

High Grade Octagon Steel, Hardened and Tempered.

Per Dozen

No. 310— $\frac{3}{4}$ x $\frac{1}{16}$ in. Face, $\frac{3}{4}$ in. Stock, $9\frac{3}{4}$ in. Long,
Weight Per Dozen 10 Lbs. \$5.00

PLUMBERS BENDING PINS

DOUBLE END



For Bending Lead Pipe

Round Steel, Forged, Natural Finish.

Per Dozen

No. 346—13 in. Long, $\frac{1}{8}$ in. Diameter, Weight Per
Dozen 10 Lbs. \$4.00

SINGLE END



For Bending Lead Pipe

Round Steel, Forged, Natural Finish.

Per Dozen

No. 648—13 in. Long, $\frac{1}{8}$ in. Diameter, Weight Per
Dozen 10 Lbs. \$4.00

PLUMBERS CHIPPING KNIVES



No. 337—Riveted Leather Handle, Crucible Steel Blade

| | |
|---------------------------|-----------------|
| Length Blade, Inches..... | 5 |
| Weight Dozen, Lbs. | 6 $\frac{1}{4}$ |
| Per Dozen | \$10.00 |

PLUMBERS TAP BORERS

Regular Pattern

Tapered, Half Oval Heavy Tool Steel Blade, Beveled Cutting Edges, Bent Shank Passes Through the Handle Headed with Washer, Hardwood Handle.

Per Dozen

No. 342—5 $\frac{1}{2}$ in. Over All,
2 $\frac{1}{2}$ in. Long, Cuts Up to
1 $\frac{1}{8}$ in. Weight Per Dozen
3 Lbs. \$4.00

One Dozen in a Box.



PLUMBERS TURN PINS

HARDWOOD

For Expanding Ends of Lead Pipe and Traps

| | | | |
|-----------------------|-----------------|-----------------|-----------------|
| Nos. | 301-1 | 301-2 | 301-3 |
| Diameter, Inches..... | 2 $\frac{3}{8}$ | 2 $\frac{5}{8}$ | 2 $\frac{3}{4}$ |
| Length, Inches..... | 3 $\frac{3}{4}$ | 4 $\frac{1}{4}$ | 4 $\frac{3}{4}$ |
| Weight Dozen, Oz..... | 3 | 4 $\frac{1}{2}$ | 4 $\frac{3}{4}$ |
| Per Dozen | \$3.00 | 3.00 | 3.00 |



LEAD DRESSERS



Lignumvitae

Per Dozen

No. 296—12 in. Long, 2 in. Wide, Weight Per Dozen
15 Lbs. \$17.00

Open Stock.

LEAD PIPE EXPANDING PLIERS



For Turning Out Collars on Lead Pipes and Traps
No danger of Stocking or Bending the Pipe when using
these Pliers. Made of Heavy Sheet Steel. Each
No. 354—11 in. Long, Weight Each 1 3/4 Lbs. \$3.25
One in a Box

PLUMBERS SCRAPERS

PEXTO



Oval Blade

Extra Quality Forged Steel, Tempered, Polished Hard-
wood Handle. Per Dozen
No. 11—5 in. Long, Weight Per Dozen 1 1/4 Lbs. \$4.60
One-half Dozen in a Box.

BIBB SEAT REAMERS



Regular Style

With Cone threaded on inside, for Bibbs with outside
thread. Handle and Cone, Brass Nickel Plated, Tool Steel
Cutters. Each
No. 417—With 4 Cutters, One Each for 3/8, 1/2, 5/8
and 3/4 in. Bibb, Weight Each 12 Oz. \$2.00

FORCE CUPS

High Grade Rubber

Firm, yet Flexible and Durable.
With Suction Valve and 30 in.
Wood Handle.

Per Dozen

No. 40—4 in. Diameter \$6.00

No. 60—6 in. Diameter 7.50

One Dozen in a Bundle.



PLUMBERS LADLES



No. 373—Single Lip

Steel Bowls, Handles Carefully Welded On.

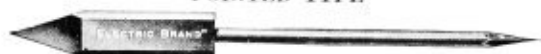
| Size, Inches | 2 1/2 | 3 | 3 1/2 | 4 | 5 |
|--------------------------|-----------|--------|------------|------------|-----------|
| Holds Lead, Lbs. | 1 1/4 | 2 1/4 | 3 | 4 1/4 | 10 1/4 |
| Holds Liquids, 1 1/2 oz. | 2 1/2 oz. | 1 gill | 1 1/4 gill | 1 3/4 gill | 2 1/4 pt. |
| Wt. Dozen, Lbs. | 6 | 6 3/4 | 11 | 13 | 26 |
| Per Dozen | \$4.50 | 6.60 | 7.75 | 8.80 | 11.50 |
| Size, Inches | 6 | 7 | 8 | 9 | 10 |
| Holds Lead, Lbs. | 14 1/4 | 21 | 27 1/2 | 40 | 50 |
| Holds Liquids, Pts. | 1 1/4 | 1 1/2 | 2 1/2 | 3 1/2 | 5 |
| Wt. Dozen, Lbs. | 32 | 74 | 88 | 128 | 152 |
| Per Dozen | \$14.00 | 33.00 | 41.00 | 56.00 | 68.00 |

SOLDER OR MELTING POTS



Good Quality Gray Iron, Wrought Iron Bail

| Size, Inches | 4 | 5 | 6 |
|-------------------|--------|--------|--------|
| Capacity, Lbs. | 7 | 13 1/2 | 18 1/2 |
| Wt. Each, Lbs. | 2 1/2 | 2 3/4 | 4 1/4 |
| Each | \$0.50 | .60 | .70 |
| Size, Inches | 7 | 8 | 10 |
| Capacity, Lbs. | 28 | 46 | 92 |
| Weight Each, Lbs. | 6 1/2 | 9 | 16 |
| Each | \$1.00 | 1.50 | 2.30 |

SOLDERING COPPERS
POINTED TYPE

Drawn Copper, Forged

| Nos. | 1/2 P | 1P | 1 1/2 P | 2P | 2 1/2 P |
|-------------------|--------|---------|---------|------|---------|
| Weight Pair, Lbs. | 1 1/2 | 1 | 1 1/2 | 2 | 2 1/2 |
| Per Pair | \$0.40 | .50 | .67 | .85 | 1.03 |
| Nos. | 3P | 3 1/2 P | 4P | 5P | 6P |
| Weight Pair, Lbs. | 3 | 3 1/2 | 4 | 5 | 6 |
| Per Pair | \$1.15 | 1.35 | 1.45 | 1.93 | 2.41 |
| Nos. | 7P | 8P | 10P | 12P | |
| Weight Pair, Lbs. | 7 | 8 | 10 | 12 | |
| Per Pair | \$2.70 | 3.08 | 3.85 | 4.62 | |

Note—Prices of Soldering Coppers Subject to Market
Changes.

HATCHET TYPE

With Swivel Handle
Drawn Copper, Forged

| Nos. | H2 | H3 | H4 |
|-------------------|--------|------|------|
| Weight Pair, Lbs. | 2 | 3 | 4 |
| Per Pair | \$1.00 | 1.15 | 1.45 |

Numbers stamped on soldering coppers indicate pounds
per pair, order by number.

RADIO TYPE

For Radio and Electrical Work
Pure Copper, Tinned, Hardwood Handle.

No. A—9 3/4 in. Long, Weight Each 12 Oz. \$3.00
One Dozen in a Box.

SOLDERING SETS

MILLERS FALLS

For Household and
Radio Work

With this Set the re-
pairing of small leaks
in the radiator, water
pump, household uten-
sils, etc., is easily and
quickly done.

Set consists of Soldering Copper, Bar of Solder, Box of
Resin and a Scraper. Per Set

No. 2—Weight Each 15 Oz. \$1.15
One Set in a Wooden Box.



SOLDERING COPPER HANDLES



Soft Wood, Wired

No. 200—5x1 3/8 in., Weight Per Dozen 2 Lbs. \$0.60
Three Dozen in a Box.

BRASS BLOW PIPES



For Gas

Seamless Brass, Ground Seated Valve made from Solid
Bar Brass.

| Nos. | 8C | 8E | 8F |
|-------------------|--------|------|--------|
| Length, Inches | 12 1/2 | 14 | 14 1/2 |
| Bore, Inches | 1/8 | 1/4 | 5/8 |
| Weight Each, Lbs. | 1 | 2 | 2 1/4 |
| Each | \$4.75 | 6.75 | 8.00 |

One in a Box.

TINNERS SNIPS

WISS

Wiss Snips are best by actual test, superior in quality and construction. A piece of finest crucible bar steel welded to the inside of the blades, gives these Snips their perfect lasting cutting edge—an edge that will not break.

WISS REGULAR STRAIGHT



Forged Steel, Crucible Steel Laid Blades
Natural Finish Handles, Polished Head.

| Nos. | 6 1/2 | 7 | 8 | 9 |
|-----------------------|--------|--------|--------|--------|
| Length, Inches..... | 15 1/2 | 14 1/2 | 13 3/4 | 12 1/2 |
| Cut, Inches..... | 4 1/2 | 4 | 3 1/2 | 3 |
| Weight Each, Lbs..... | 3 1/2 | 3 1/2 | 2 1/2 | 2 |
| Each | \$4.32 | 3.62 | 2.88 | 2.55 |

| Nos. | 10 | 11 | 12 | 13 |
|-----------------------|--------|-------|------|------|
| Length, Inches..... | 11 1/2 | 9 1/2 | 8 | 7 |
| Cut, Inches..... | 2 1/2 | 2 1/4 | 2 | 2 |
| Weight Each, Lbs..... | 1 1/2 | 3/4 | 1/2 | 1/2 |
| Each | \$2.34 | 1.73 | 1.45 | 1.34 |

One in a Box.

WISS COMBINATION



Forged Steel, Crucible Steel Laid Blades

Natural Finish Handles, Polished Head; Will Cut Curved as Well as Straight Work.

| Nos. | 17 | 18 | 19 | 100 |
|-----------------------|--------|--------|--------|--------|
| Length, Inches..... | 14 1/2 | 13 1/2 | 12 1/2 | 11 1/2 |
| Cut, Inches..... | 4 | 3 1/2 | 3 | 2 1/2 |
| Weight Each, Lbs..... | 2 3/4 | 2 1/2 | 1 3/4 | 1 1/2 |
| Each | \$3.94 | 3.28 | 2.96 | 2.63 |

These snips have beveled blades and straight cutting edges for cutting circles, scrolls, etc., and can be also used for regular work.

One in a Box.

WISS CIRCULAR BLADE



Forged Steel, Crucible Steel Laid Blades

Natural Finish Handles, Polished Head, for Cutting Curved Work.

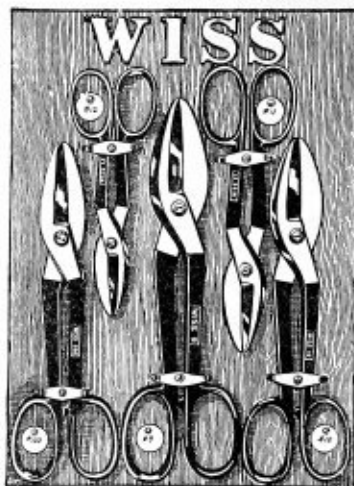
| Nos. | 6 1/2 CB | 7 CB | 8 CB | 9 CB | 10 CB |
|-----------------------|----------|--------|--------|--------|--------|
| Length, Inches..... | 15 1/2 | 14 1/2 | 13 3/4 | 12 1/2 | 11 1/2 |
| Cut, Inches..... | 4 1/2 | 4 | 3 1/2 | 3 | 2 1/2 |
| Weight Each, Lbs..... | 3 1/2 | 3 | 2 1/4 | 2 | 1 1/2 |
| Each | \$6.22 | 5.08 | 4.32 | 3.96 | 3.62 |

One in a Box.

Hand of Snips—Confusion often arises as to the meaning of the terms Right and Left Hand as applied to Snips. Right Hand are made like Bench Shears and Left Hand opposite. That is, when held in the right hand the lower blade is on the right side of the shears in Right Hand Shears, and on the left side in the Left Hand Shears. Left Hand only are shown in the cuts. Left Hand Snips are more generally used, and are invariably sent.

TINNERS SNIPS

WISS DISPLAY BOARDS



Each
No. 35 Display Board
—Consists of 5
High Grade Wiss
Tinnors' Snips, as
Listed Below,
Mounted on a 12x
16 in. Wooden
Panel, Green Mis-
sion Finish, with a
Wooden Easel
Ready to Place on
Counter or in
Window. Hand-
some, Simple and
Practical, Weight
Complete 7 1/2 Lbs.
.....\$10.70

Contents of No. 35 Display Boards

- 1—No. 9 Regular Pattern, 12 1/2 in. Long, 3 in. Cut.
1—No. 10 Regular Pattern, 11 1/2 in. Long, 2 1/2 in. Cut.
1—No. 11 Regular Pattern, 9 1/2 in. Long, 2 1/4 in. Cut.
1—No. 12 Regular Pattern, 8 in. Long, 2 in. Cut.
1—No. 100 Combination Pat'n, 11 1/2 in. Long, 2 1/2 in. Cut.

SAMSON STRAIGHT



Forged Steel, Crucible Steel Laid Blades
Japanned Finish Handles, Polished Head.

| Nos. | 46 | 47 | 48 | 49 |
|-----------------------|--------|--------|-------|--------|
| Length, Inches..... | 15 1/2 | 14 1/2 | 14 | 12 1/2 |
| Cut, Inches..... | 4 1/2 | 4 | 3 1/2 | 3 |
| Weight Each, Lbs..... | 3 3/4 | 3 | 2 5/8 | 1 7/8 |
| Each | \$4.00 | 3.30 | 2.60 | 2.30 |

| Nos. | 50 | 51 | 52 |
|-----------------------|--------|--------|-------|
| Length, Inches..... | 11 1/2 | 10 1/2 | 8 1/2 |
| Cut, Inches..... | 2 1/2 | 2 1/4 | 2 |
| Weight Each, Lbs..... | 1 1/2 | 1 1/8 | 5/8 |
| Each | \$2.10 | 1.60 | 1.30 |

One in a Box.

HERCULES COMBINATION



Forged Steel, Crucible Steel Laid Blades
Japanned Finish Handles, Polished Head.

| Nos. | 147 | 148 | 149 |
|-----------------------|--------|--------|--------|
| Length, Inches..... | 14 1/2 | 13 1/2 | 12 1/2 |
| Cut, Inches..... | 4 | 3 1/2 | 3 |
| Weight Each, Lbs..... | 3 | 2 1/4 | 2 |
| Each | \$3.80 | 3.20 | 2.85 |

These snips are made so as to easily cut circles, scrolls, etc., and are equally adapted to the same class of work as the regular snip. The jaws are beveled with straight cutting edges which allows the material to pass freely when cutting curves or changing direction of cut.

One in a Box.

TINNERS SNIPS

SAMPSON CIRCULAR



Forged Steel, Crucible Steel Laid Blades
Japanned Finish Handles, Polished Head.

| Nos. | 47C | 48C | 49C | 50C |
|-------------------|--------|-------|--------|-------|
| Length, Inches | 14 1/2 | 14 | 13 3/4 | 11 |
| Cut, Inches | 4 | 3 1/2 | 3 | 2 1/2 |
| Weight Each, Lbs. | 3 | 2 5/8 | 1 7/8 | 1 1/2 |
| Each | \$4.60 | 4.00 | 3.60 | 2.30 |

One in a Box.

SEARIGHT

BARTLETT COMPOUND LEVER



Drop Forged, High Grade Crucible Steel

Tempered Throughout, Polished Blades, Japanned Handles.

| Nos. | *7 | 8 | 10 | 12 | 14 |
|--------------------|--------|-------|--------|-------|-------|
| Length, Inches | 7 | 8 | 10 1/2 | 12 | 14 |
| Length Cut, Inches | 1 1/4 | 1 3/4 | 2 1/2 | 3 | 3 1/2 |
| Weight Each, Lbs. | 7/16 | 5/8 | 1 1/4 | 1 3/4 | 2 1/2 |
| Each | \$3.00 | 4.50 | 6.75 | 9.00 | 10.50 |

The compound lever action gives an evenly distributed cutting strain from a close throat start to the finish at the point.

*Pocket Size, Pressed from Crucible Sheet Tool Steel.

One in a Box.

TROJAN IMPROVED

With Tailor's Shear Bows

High Grade Drop Forged Steel, Japanned Handles, Polished Blades.

| | |
|---|--------|
| No. 80—12 in. Long, 2 1/2 in. Cut, Capacity 26 Gauge, | Each |
| Weight Each 2 Lbs. | \$3.75 |

These snips have sharp points and are used for cutting straight or curved lines and for scroll on cornice work.

One in a Box.

BERRIDGE DOUBLE CUTTING

With Pipe Crimpers

Forged from High Grade Steel, Carefully Tempered and Hardened, Polished Head, Black Finish Handles.

| | |
|---|--------|
| No. 2—13 1/2 in. Long, Weight Each 2 1/4 Lbs. | Each |
| | \$4.00 |

Adapted to cutting off the bottoms of pails, cans, etc., and suitable for cutting round or square work. The Crimping Attachment is designed for crimping any kind of sheet metal, pipe, round or square. The parts are interchangeable. The crimping jaws and blades are of high grade steel.

One in a Box.

AUTOMOBILE SNIPS

PEXTO POCKET



Solid Forged Steel

Steel Laid Blades, Polished Head, Blued Handles.

| | |
|--|--------|
| No. 82—2 in. Cut, 7 in. Long Over All, Weight Each | Each |
| 1/2 Lb. | \$1.20 |

A very useful little snip that just fits the vest pocket. Used by automobilists, plumbers, electricians and mechanics.

Six in a Box.

HOUSEHOLD SNIPS

BERRIDGE



Steel Forged

Forged from Solid Steel Bars, Blued Finish Handles, Polished Blades.

| | |
|--|-----------|
| No. 19—12 1/2 in. Long, 3 1/4 in. Cut, Weight Each | Per Dozen |
| 1 3/4 Lbs. | \$17.60 |

One-half Dozen in a Box.

CLIPPER

Cast Iron

Hardened Edges, Black Japanned Finish, Polished Blades.

| | |
|--|-----------|
| No. 3—10 1/2 in. Long, 3 in. Cut, Weight Per Dozen | Per Dozen |
| 15 Lbs. | \$7.00 |

One-half Dozen in a Box.

DENTAL SNIPS

WISS



Forged Steel

Nickel Plated Blades, Black Japanned Handles, Crucible Steel Inlaid Blades, Fitted with Screw and Nut.

| | |
|---|-----------|
| No. 0—7 1/2 in. Long, 2 in. Cut, Weight Per Dozen | Per Dozen |
| 4 Lbs. | \$15.75 |

Made especially for dentists' and jewelers' work. An extra fine snip for cutting precious metals, templates and light sheet metal.

One-half Dozen in a Box.

GASOLINE TORCHES

CLAYTON & LAMBERT

Single Needle Burner



Heavy Gauge Brass Reinforced Tank, Automatic Brass Pump, Funnel Shaped Bottom, Large Filler Plug, with Removable Soldering Copper Hook.

This Torch has been a favorite with mechanics for many years.

It produces over 300 degrees more heat than any similar torch and burns low test fuel perfectly.

Each
No. 32—Capacity 1 Quart, Weight Each 4 1/4 Lbs. . . \$18.00
One in a Box.

CLAYTON & LAMBERT

Improved Single Burner

Heavy Gauge Brass Reinforced Tank, Automatic Brass Pump, Funnel Shaped Bottom, Large Filler Plug, with Removable Soldering Copper Hook.

This Torch leads all other single burner torches and burns low test fuels perfectly.

Each
No. 38—Capacity 1 Pint, Weight
Each 3 Lbs. . . \$17.00

One in a Box.



CLAYTON & LAMBERT

Patent Double Needle Burner

Designed for extra heavy work requiring intense heat and burns perfectly in wind or zero weather.

Heavy Gauge Brass Reinforced Tank, Automatic Brass Pump, Funnel Shaped Bottom, Large Filler Plug.

The Patent Double Needle Burner has maximum generating power producing a perfect fire, burning low test fuel, has removable hook.

Each
No. 206—Capacity 2 Qts.,
Weight Each 7 3/4
Lbs. . . \$15.75
One in a Box



CLAYTON & LAMBERT

Patent Double Needle Burner

Heavy Gauge Brass Reinforced Tank, Automatic Brass Pump, Funnel Shaped Bottom, Large Filler Plug, with Removable Soldering Copper Hook.

The Patent Double Burner has maximum generating power.

Each
No. 208—Capacity 1 Qt.,
Weight Each 5 1/4 Lbs. \$10.00

One in a Box.



GASOLINE TORCHES

CLAYTON & LAMBERT

Patent Double Needle Burner

Heavy Gauge Brass Reinforced Tank, Automatic Brass Pump, Funnel Shaped Bottom, Large Filler Plug, with Removable Soldering Copper Hook.

The Patent Double Burner has maximum generating power.

Each
No. 210—Capacity 1 Pt., Wt.
Each 4 Lbs. . . \$9.50
One in a Box.



CLAYTON & LAMBERT

Single Needle Burner

Heavy Gauge Brass Reinforced Tank, Automatic Brass Pump, Funnel Shaped Bottom, Large Filler Plug with Removable Soldering Copper Hook. A medium priced Torch having burner tube with Under-Generator.

The Burner is made of Bronze Metal and produces a steady blue flame. The needle which is sharp pointed is fitted with Stuffing Box to prevent leakage.

Each
No. 130 — Capacity 1 Qt.,
Weight Each 4 Lbs. . . \$17.00
One in a Box.



CLAYTON & LAMBERT

Single Needle Burner

Heavy Gauge Brass Reinforced Tank, Automatic Brass Pump, Funnel Shaped Bottom, Large Filler Plug, with Removable Soldering Copper Hook.

A Strong Blast Heat is generated by this powerful burner, the resulting blue flame is a joy to the user.

A surprisingly low amount of gasoline is required compared with the results obtained in heat effice.

Each
No. 132—Capacity 1 Qt., Wt.
Each 4 1/4 Lbs. . . \$16.00
One in a Box.



CLAYTON & LAMBERT

Open Type Generator Burner, for Gasoline

Bronze Metal Burner, with Open Type Generator that injects the air which mixes with the gas, producing a steady blue flame.

The Hook on Burner is removable and can be laid aside when not needed.

Air pressure required to operate the torch is quickly produced by the Automatic Brass Pump.

Polished Heavy Gauge Brass Tank
Each
No. 144—Capacity 1 Quart, Polished Brass with Hook and Support for Holding Soldering Copper, Weight Each 4 1/4 Lbs. . . \$15.00
No. 146—Capacity 1 Pint, Weight Each 3 Lbs., Otherwise Same as No. 144. . . 14.00
One in a Box.



GASOLINE TORCHES

CLAYTON & LAMBERT FLAT TANK



Patent Double Needle Burner

Heavy Gauge Brass, Reinforced Body, Automatic Brass Pump in Handle, Removable Soldering Copper Hook.

Particularly adapted for the use of automobile mechanics and electricians as it fits snugly in the tool box.

No. 48D—Capacity 1 Pt., 5 in. Long, $8\frac{1}{2}$ in. High, $1\frac{1}{4}$ in. Thick. Weight Each $4\frac{1}{4}$ Lbs. \$24.00 One in a Box.

PARTS FOR CLAYTON & LAMBERT TORCHES



Always State Number of Torch When Ordering.

| | | | |
|------------------------|---------|-------------------------|--------|
| Burner Complete..... | \$ 9.00 | Dip Tube | \$0.35 |
| Burner Body, old style | 4.00 | Filler Plug | .90 |
| Back Burner, new style | 4.15 | Filler Plug Washer... | .06 |
| Burner Body, new style | 3.25 | Filler Collar | .30 |
| Tank Complete | 12.00 | Ebonite Hdle & Scrs.. | .25 |
| Tank Only | 9.50 | Handle Bracket | .40 |
| Pump Complete..... | 3.70 | Burner Hook (screw in) | .25 |
| Drip Cup and Screw... | .50 | Stuffing Box for Burner | .40 |
| Burner Nipple..... | .50 | Cleanout Plug | .06 |
| | | Wind Shield..... | .30 |

DREADNAUGHT

Service with Safety

Produces a Broad Hot Flame. Equipped with Automatic Cleaning Needle, Installed in Valve Stem.

Brazed Steel Tank, Patent Burner, Patent Pump Clasp with Soldering Copper Hook.

No. 41—Capacity 1 Quart., Wt. Each $5\frac{1}{4}$ Lbs. \$7.00 One in a Box.



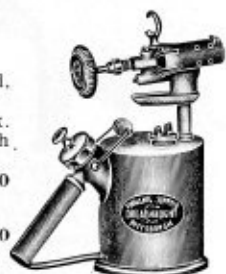
DREADNAUGHT

For General Use

Brazed Steel Tank, Copper Plated, Powerful Burner, Patent Pump Clasp, with Soldering Copper Hook.

No. 31—Capacity 1 Quart, Wt. Each $4\frac{1}{2}$ Lbs. \$7.00

No. 38—Capacity 1 Pint, Wt. Each $4\frac{1}{4}$ Lbs. 6.50 One in a Box.



DREADNAUGHT AUTOMATIC

Operates Automatically Without Pump

Brazed Steel Copper Plated, with Soldering Copper Hook.

No. 8—Capacity 1 Pint, Wt. Each $1\frac{3}{4}$ Lbs. \$4.00 One Dozen in a Box.



BLOW TORCHES

LENK AUTOMATIC



Generates Its Own Power

Brass, Nickel Plated, Non-Leakable, Burns Denatured Alcohol.

No. 66— $6\frac{1}{4}$ in. Long, $2\frac{3}{8}$ in. Wide, Weight Each 8 Oz. \$1.75

No pumping, no priming, blows itself, flame heat 1400° Fahrenheit.

Six in a Display Box.

SPARTAN

Brass, Nickel Plated, Burns Alcohol

No. 20—Spartan, Produces 1200° Needle Point Flame, Complete with Ebony Finished Mouthpiece and Rubber Tube, Weight Each 8 Oz. \$2.00

The mechanics choice for long continued service.

One in a Box.



IMP

Entirely Automatic

Starts with a Match. Perfect Bunsen Flame of Over 2000 Degrees. No Pumping, no Blowing. Uses Gasoline. Brass, Nickel Plated. For Jobs Requiring a Melting, Fusing or Brazing Heat.



No. 17—Weight Each 8 Oz. \$1.75 One in a Box.

CHAMPION

Built To Last a Lifetime

Brass, Nickel Plated, Operates About Three Hours on One Filling. Produces 1700 Degree Flame, Blows Itself, Starts in 20 Seconds. Mechanically Fool-proof. All Parts Interchangeable. Equipped with Detachable Shield Protecting Blast from Drafts on Outdoor Work.



No. 30—7 in. High, $3\frac{1}{4}$ in. Diameter, Weight Each 1 Lb. \$3.00 One in a Box.

HANDY

Brass, Nickel Plated

Produces 1200 Degree Needle Flame. Handy for Any Soldering Purpose. Used by Electricians, Mechanics, Radio Fans, Motorists, Plumbers, Jewelers, Opticians, etc. Complete with Mouth Piece and Rubber Tube.

No. 7—5 in. Long, $\frac{3}{8}$ in. Diameter, Weight Each 2 Oz. \$0.75 Six on a Display Card.



GASOLINE FIRE POTS

CLAYTON & LAMBERT

With Pump in Tank



Heavy Tinned Drawn Steel Tank, Base is Protected with Patent Cushion Band, Fitted with Patent Double Blunt Needle Burner Having Great Generating Power and Giving Satisfactory Results Under the Most Severe Conditions. The Fire is controlled by the Lower Needle and the Upper Needle is used to clear the gas orifice should it become clogged. A pair of Coppers can be heated and a pot of metal melted at the same time.

Each

No. 1—Capacity 1 Gallon, Weight Each 14 Lbs. \$28.00

One in a Box.

CLAYTON & LAMBERT COIL

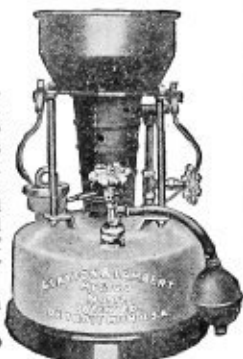
Fitted with Air Valve and Bulb

Rust Proof Drawn Steel Tank, Heavily Tin Coated Inside and Out, Preventing Rust Working Up Into Coil and Burner which Prevents Clogging. Patent Three Piece Coil Cup and Shield of Heavy Steel. This Fire Pot will withstand hard service, produce the hottest fire and uses very little fuel. The cost of upkeep is less than that of any other style of Fire Pot.

Each

No. 12—Capacity 1 Gallon, Weight Each 12½ Lbs. \$20.20

One in a Box.



CLAYTON & LAMBERT COIL

With Pump in Tank

Rust Proof Drawn Steel Tank, Heavily Tin Coated Inside and Out, Preventing Rust Working Up into Coil and Burner, Preventing Clogging. Patent Three Piece Coil Cup and Shield of Heavy Steel. This Fire Pot has the same improved features as the No. 12 illustrated above except it being equipped with Automatic Brass Pump in tank, eliminating the use of bulb.

Each

No. 22—Capacity 1 Gallon, Weight Each 12½ Lbs. \$20.60

One in a Box.



PLUMBERS FURNACES

H. J. & C.

With Rubber Bulb and Safety Air Valve

Heavy Steel Reservoir, Attractively Enameled, Patent Air Valve Prevents Back Flow of Gasoline Into the Bulb and Safeguards the Operator from Accidental Explosions and fires. Heavy One-Piece Metal Shield, Heavy Cast Brass Spider Providing Substantial Support for the Malleable Iron Top Plate and Shield.

Each

No. S5848—Capacity 7 Pints, Weight Each 15 Lbs. \$20.20



SOLDERING COPPER FURNACES

REGO

Fire Brick Lined

Galvanized Iron Hood, Cast Iron Base.

Burns with a mixture of air and gas in proportion of about 92% of air and 8% of gas, giving an excellent heat. They are lined with fire brick which keeps the heat within the furnace and prevents the same from radiating.



| Nos. | 1B | 2B |
|-------------------|--------|------|
| Burners | 1 | 2 |
| Width, Inches | 6½ | 8 |
| Length, Inches | 12 | 13½ |
| Height, Inches | 7½ | 7½ |
| Weight Each, Lbs. | 9 | 13 |
| Each | \$4.00 | 5.00 |

REGO COMBINATION

For Heating Soldering Coppers, Glue, Etc.

Cast Iron Hood. The Lid can be removed to permit the use of a glue pot. For natural or manufactured gas.



| Nos. | 1C | 2C |
|-------------------|--------|------|
| Burners | 1 | 2 |
| Width, Inches | 6½ | 8 |
| Length, Inches | 12 | 13½ |
| Height, Inches | 6½ | 6½ |
| Weight Each, Lbs. | 2½ | 2½ |
| Each | \$4.50 | 6.00 |

GAS BENCH FURNACES

JOHNSON

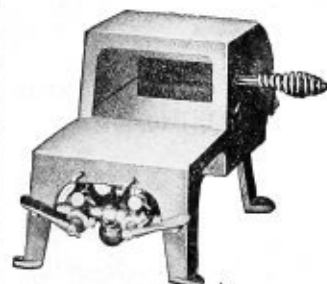
No Forced Air Blast Required

Will heat-treat carbon steel tools, such as dies, gears, taps, reamers and chisels. A blower is unnecessary, which eliminates the use of a muffler.

Equipped with powerful atmospheric burners, each having a separate pilot light and shut-off valve.

Will produce a heat of from 1600 to 1800 degrees F. in the fire box.

Each



No. 101

No. 1—1 Burner, 12 in. Long Over All, 7½ in. High, 3½x2½ in. Fire Pot Opening, Will Heat Soldering Coppers Up to 6 Lbs. Per Pair, Weight Each 12 Lbs. \$10.00

No. 101—2 Burners, 14 in. Long Over All, 7½ in. High, 4½x2¾ in. Fire Box Opening, 5½x4½x3¾ in. Furnace Chamber, Gas Consumption About 12 Cubic ft. an Hour to the Burner, Will Heat Soldering Coppers Up to 10 Lbs. Per Pair, Weight Each 18 Lbs. 13.00

The shelf in the rear of the fire-box forms a rest and protects the points of soldering coppers. These Furnaces have patented curved shape hood, which forces a return blast over the tops of the irons or parts being heated.

CARBORUNDUM STONES

Carborundum is an artificial abrasive or grinding material, a product of the electric furnace. It is very much harder than any other known abrasive, which gives it great durability. It is made up of small sharp crystals that are just brittle enough to break slightly when in use. The sharp edges of the crystals cut clean and fast, while the brittleness, by constantly presenting fresh cutting edges, prevents glazing. The combination of these qualities gives to Carborundum its unquestioned title of being one of the best of all known abrasives.

BENCH



Fine Grit

| Nos. | F115 | F118 | F133 | F121 | F124 | F142 |
|-------------------|--------|------|------|------|------|-------|
| Length, Inches... | 8 | 8 | 7 | 6 | 6 | 4 |
| Width, Inches... | 2 | 2 | 2 | 2 | 2 | 1 3/4 |
| Thickness, In... | 1 | 3/4 | 1 | 1 | 5/8 | 1/2 |
| Wt. Each, Lbs... | 1 1/2 | 7/8 | 1 | 7/8 | 5/8 | 3/8 |
| Each | \$1.50 | 1.35 | 1.25 | 1.15 | .90 | .65 |

Medium Grit

| Nos. | M116 | M119 | M134 | M122 | M143 |
|-------------------|--------|------|------|------|-------|
| Length, Inches... | 8 | 8 | 7 | 6 | 4 |
| Width, Inches... | 2 | 2 | 2 | 2 | 1 3/4 |
| Thickness, In... | 1 | 3/4 | 1 | 1 | 1/2 |
| Each | \$1.50 | 1.35 | 1.25 | 1.15 | .65 |

Coarse Grit

| Nos. | C117 | C120 | C135 | C123 |
|----------------------|--------|------|------|------|
| Length, Inches... | 8 | 8 | 7 | 6 |
| Width, Inches... | 2 | 2 | 2 | 2 |
| Thickness, Inches... | 1 | 3/4 | 1 | 1 |
| Each | \$1.50 | 1.35 | 1.25 | 1.15 |

One in a Box, Six in a Carton.

COMBINATION STONES



One Side Coarse Grit, Other Side Very Fine Grit

| Nos. | 108 | 109 | 110 | 111 | 112 |
|----------------------|--------|------|------|-------|-------|
| Length, Inches... | 8 | 6 | 7 | 5 | 4 |
| Width, Inches... | 2 | 2 | 2 | 2 | 1 3/4 |
| Thickness, Inches... | 1 | 1 | 1 | 3/4 | 5/8 |
| Weight Each, Lbs... | 1 1/2 | 3/4 | 1 | 1 1/2 | 1 1/2 |
| Each | \$1.75 | 1.25 | 1.50 | 1.00 | .85 |

One in a Box, Six in a Carton.

ROUND COMBINATION BENCH STONES



One Side Coarse Grit, Other Side Very Fine Grit

Each
No. 107—4 in. Diameter, 1 in. Thick, Weight Each
5/8 Lb. \$1.25
One in a Box, Six in a Carton.

AXE STONES

Uniform Grit, Fast Cutting

| No. | 195 |
|-------------------|--------|
| Length, Inches... | 2 1/2 |
| Width, Inches... | 2 1/2 |
| Thickness, In... | 1 1/2 |
| Wt. Each, Lbs... | 3/4 |
| Each | \$0.45 |

One in a Box, Six in a Carton.



MACHINISTS SPECIAL



Extra Hard, for Cutters, Reamers and Lathe Tools

| No. | 292 | Each |
|---|--------|------|
| —Fine, 4 in. Long, 1 in. Wide, 1/2 in. Thick, | | |
| Weight Each 2 1/2 Oz. | \$0.55 | |
| One in a Box, Six in a Carton. | | |

SLIP STONES



For Sharpening Gouges and Other Round Edge Tools

| Nos. | 180 | 181 | 182 | 183 |
|----------------------|-----------|-----------|-----------|-----------|
| Grit | Fine | Medium | Coarse | Fine |
| Length, Inches... | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 |
| Width, Inches... | 2 1/8 | 2 1/8 | 2 1/8 | 1 3/4 |
| Thickness, Inches... | 5/8 - 3/4 | 5/8 - 3/4 | 5/8 - 3/4 | 1/2 - 3/4 |
| Weight Each, Lbs... | 3/8 | 3/8 | 3/8 | 3/4 |
| Each | \$0.90 | .90 | .90 | .65 |

One in a Box, Six in a Carton.

POCKET HONES



Mounted on Display Board

Very Attractive and Sure to Increase Sales.

Per Box of 2 Dozen
No. 149 — 3x 3/4 x 3/8 in., for Sharpening Pocket Knives and Small Tools. Put Up in a Neat Buff Colored Carton in a 10x12 in. Display Box with Easel Back, Wt. Per Box 1 3/4 Lbs. \$4.80

STICKS



Coarse, Medium and Fine

When ordering always state Grade, also Style and Length.

Squares, 4 in. Long

| Size, Inches... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
|-----------------|--------|-----|-----|-----|-----|
| Each | \$0.50 | .50 | .50 | .55 | .55 |

Squares, 6 in. Long

| Size, Inches... | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
|-----------------|--------|-----|-----|-----|-----|
| Each | \$0.70 | .70 | .75 | .75 | .85 |

Triangles, 4 in. Long

| Size, Inches... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
|-----------------|--------|-----|-----|-----|-----|
| Each | \$0.65 | .65 | .65 | .70 | .70 |

Triangles, 6 in. Long

| Size, Inches... | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
|-----------------|--------|-----|-----|-----|------|
| Each | \$0.85 | .85 | .95 | .95 | 1.00 |

Half Rounds, 4 in. Long

| Size, Inches... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
|-----------------|--------|-----|-----|-----|-----|
| Each | \$0.65 | .65 | .65 | .70 | .70 |

Half Rounds, 6 in. Long

| Size, Inches... | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
|-----------------|--------|-----|-----|-----|------|
| Each | \$0.85 | .85 | .95 | .95 | 1.00 |

Rounds, 4 in. Long

| Size, Inches... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
|-----------------|--------|-----|-----|-----|-----|
| Each | \$0.70 | .70 | .70 | .75 | .75 |

Rounds, 6 in. Long

| Size, Inches... | 3/8 | 1/2 | 5/8 | 3/4 | 1 |
|-----------------|--------|-----|------|------|------|
| Each | \$0.95 | .95 | 1.00 | 1.00 | 1.05 |

Six in a Box.

OIL STONES

INDIA

India Oil Stones possess the characteristics of hardness, sharpness and toughness and in addition they possess absolute uniformity. They are especially adapted to the quick sharpening of all tools. All India Stones are filled with oil which insures a moist oily sharpening surface.

INDIA REGULAR BENCH



Medium, Fine or Coarse Grit

Medium Grit Furnished Unless Otherwise Ordered.

| Nos. | 0 | 1 1/2 | 2 | 3 | 29 |
|-------------------|--------|-------|-------|-----|-------|
| Length, Inches | 8 | 7 | 6 | 4 | 6 |
| Width, Inches | 2 | 2 | 1 1/2 | 1 | 2 |
| Thickness, Inches | 1 | 1 | 3/4 | 1/2 | 1 |
| Weight Each, Lbs. | 1 1/2 | 1 1/4 | 3/4 | 1/4 | 1 1/2 |
| Each | \$1.50 | 1.25 | 1.00 | .60 | 1.15 |

One in a Box.

INDIA REGULAR COMBINATION



With One Face Medium and One Coarse Grit

| Nos. | 0C | 1 1/2 C | 2C | 29C |
|-------------------|--------|---------|-------|-------|
| Length, Inches | 8 | 7 | 6 | 6 |
| Width, Inches | 2 | 2 | 1 1/2 | 2 |
| Thickness, Inches | 1 | 1 | 3/4 | 1 |
| Weight Each, Lbs. | 1 1/2 | 1 1/4 | 3/4 | 1 1/2 |
| Each | \$2.00 | 1.75 | 1.35 | 1.50 |

One in a Box.

INDIA REGULAR SLIPS



Medium, Fine or Coarse Grit

Medium Grit Furnished Unless Otherwise Ordered.

| Nos. | 13 | 14 | 15 |
|-------------------|-----------|-----------|-----------|
| Length, Inches | 4 1/2 | 4 1/2 | 4 1/2 |
| Width, Inches | 1 3/4 | 1 3/4 | 1 3/4 |
| Thickness, Inches | 1/2 x 3/8 | 3/4 x 1/2 | 1/2 x 1/2 |
| Weight Each, Lbs. | 4 | 3 1/2 | 2 |
| Each | \$0.65 | .65 | .65 |

Twelve in a Box.

INDIA SPECIAL GOUGE SLIPS



Made in Fine Grit Only

For Gouges and All Curved Cutting Edges. Each

| | |
|---|--------|
| No. 21—6 in. Long, 2 in. Widest End, 1 in. at Small End, Edges Taper 3/8 to 1/8 in., Wt. Each 7 Oz. | \$1.50 |
|---|--------|

One in a Box.

HARD ARKANSAS BENCH



Selected Fine Grain

For use of engravers, pattern makers, surgeons, fine wood workers and makers and users of fine tools. They impart a cutting edge unequalled by any other stone.

| Nos. | 5HB | 6HB | 7HB | 8HB |
|-------------------|--------|-------|-------|-------|
| Length, Inches | 5 | 6 | 7 | 8 |
| Width, Inches | 2 | 2 | 2 | 2 |
| Thickness, Inches | 3/4-1 | 3/4-1 | 3/4-1 | 3/4-1 |
| Weight Each, Lbs. | 7/8 | 1 | 1 1/4 | 1 1/4 |
| Each | \$3.60 | 6.00 | 7.00 | 8.00 |

One in a Box.

OIL STONES

LILY WHITE WASHITA



Uniform in Texture, Free from Foreign Substance

| Nos. | 6L | 7L | 8L |
|-------------------|----------|----------|----------|
| Length, Inches | 6 | 7 | 8 |
| Width, Inches | 2 | 2 | 2 |
| Thickness, Inches | 3/4 to 1 | 3/4 to 1 | 3/4 to 1 |
| Weight Each, Lbs. | 1 | 1 1/2 | 1 1/2 |
| Each | \$0.75 | .85 | 1.25 |

One in a Box.

No. 1 WASHITA



A Medium Priced Stone for General Use

| Nos. | 6W | 7W | 8W |
|-------------------|----------|----------|----------|
| Length, Inches | 6 | 7 | 8 |
| Width, Inches | 2 | 2 | 2 |
| Thickness, Inches | 3/4 to 1 | 3/4 to 1 | 3/4 to 1 |
| Weight Each, Lbs. | 1 | 1 1/2 | 1 1/2 |
| Each | \$0.45 | .55 | .75 |

One in a Box.

QUEER CREEK



Can Be Used with Oil or Water

A Hard Medium-Coarse Grain Stone for Rough Work.

| Nos. | 8QC |
|-------------------|----------|
| Length, Inches | 8 |
| Width, Inches | 2 |
| Thickness, Inches | 3/4 to 1 |
| Weight Each, Lbs. | 1 1/4 |
| Each | \$0.40 |

One in a Carton.

No. 1—WASHITA MOUNTED



Nicely Finished Hardwood Boxes

| Nos. | 6M | 7M | 8M |
|-------------------|--------|-------|-------|
| Length, Inches | 6 | 7 | 8 |
| Width, Inches | 2 | 2 | 2 |
| Thickness, Inches | 1 1/2 | 1 1/4 | 1 1/4 |
| Weight Each, Lbs. | 1 1/2 | 1 1/4 | 1 1/4 |
| Each | \$0.70 | .80 | 1.10 |

One in a Box.

HARD ARKANSAS PENKNIFE PIECES



Selected Fine Grain

Used extensively by surgeons for sharpening small pointed instruments and by draftsmen for drawing pens, etc.

| Nos. | 4HP |
|-------------------|---------|
| Length, Inches | 4 |
| Width, Inches | 1 |
| Thickness, Inches | 1/4-3/8 |
| Weight Each, Oz. | 2 1/2 |
| Each | \$0.75 |

Open Stock.

OIL STONES

HARD ARKANSAS SLIPS



Selected Fine Grain

Used extensively in the higher arts and crafts for tools with special shaped edges; also for workers in hardwood for sharpening gouges and other curved edges on account of the long lasting edge produced.

| | |
|------------------------------|-----------|
| No. | 4HS |
| Length, Inches | 4 |
| Width, Inches | 1 3/4 - 2 |
| Back Thickness, Inches | 3/8 - 1/2 |
| Edge Thickness, Inches | 1/8 - 1/4 |
| Weight Each, Oz. | 3 |
| Each | \$1.50 |

Note—Sizes of all Arkansas Oil Stones are approximate and there is a slight variation in dimensions given above. One in a Box.

LILY WHITE WASHITA SLIPS



For Sharpening Gouges, Chisel Knives, Etc.

Best Selected Washita, Uniform in Texture.

| | |
|------------------------------|-----------|
| No. | 4WS |
| Length, Inches | 4 |
| Width, Inches | 1 3/4 - 2 |
| Thickness Back, Inches | 3/8 - 1/2 |
| Thickness Edge, Inches | 1/8 - 1/4 |
| Weight Each, Oz. | 3 |
| Each | \$0.30 |

Twelve in a Box.

RUBBING BRICKS
CARBORUNDUM

Plain

For Dressing and Smoothing Granite, Marble, etc., and for Scouring Castings.

| | | | | | | |
|-------------------------|--------|-------|------|-----|-----|-----|
| Nos. | 211 | 212 | 214 | 215 | 222 | 223 |
| Length, Inches | 8 | 8 | 6 | 6 | 4 | 4 |
| Width, Inches | 2 | 2 | 2 | 2 | 2 | 2 |
| Thickness, Inches | 2 | 1 | 2 | 1 | 2 | 1 |
| Weight Each, Lbs. | 2 1/2 | 1 1/4 | 2 | 1 | 1 | 1/2 |
| Each | \$1.45 | .80 | 1.15 | .60 | .80 | .50 |

Open Stock.

RUBBING STONES
CARBORUNDUM

Fluted

For Removing Form and Mould Marks and Dressing Down All Kinds of Concrete Work.

| | |
|------------------------|--------|
| No. | 285 |
| Size, Inches | 8x2x2 |
| Weight Each, Lbs. | 2 |
| Each | \$1.45 |

KITCHEN SANDSTONES

PIKE



Mounted in Wooden Case

A Selected Sharp-Gritted Sandstone for Kitchen Use, Shoe makers Knives, etc.

| | |
|--|--------|
| No. 1K—8 1/2 in. Long, 1 1/2 in. Wide, Weight Per Dozen 11 3/4 Lbs. | \$2.50 |
|--|--------|

One Dozen in a Box.

SCYTHE STONES

CARBORUNDUM-ALOXITE



Cuts Fast and Clean

Uniform Grit, Will Not Glaze.

| | | | |
|-----------------------------|--------|--------|--------|
| Nos. | 190 | 191 | 192 |
| Length, Inches | 10 | 12 | 10 |
| Width, Inches | 1 | 1 1/4 | 1 1/4 |
| Thickness, Inches | 3/8 | 1/2 | 1/2 |
| Weight Per Dozen, Lbs. | 6 3/4 | 11 1/2 | 10 1/2 |
| Per Dozen | \$3.60 | 4.20 | 4.20 |

Aloxite Stones must not be classed with the ordinary scythe stone. The old style stones are merely sand stones and rub the edge on. Aloxite cuts fast and quick, the advantage is obvious.

One Dozen in a Display Box.

BLACK DIAMOND



Flat Octagon Shape

Very Fine Grit, Extremely Sharp, Fast Cutting. Gives a Fine Lasting Edge.

| | |
|---|--------|
| Black Diamond—10 1/2 in. Long, Weight Per Dozen 8 1/2 Lbs. | \$1.75 |
|---|--------|

Three Dozen in a Box.

GREEN MOUNTAIN



Oval Shape

A Very Sharp Gritted Stone of Uniform Quality.

| | |
|---|--------|
| Green Mountain—9 1/2 in. Long, Weight Per Dozen 8 1/2 Lbs. | \$1.10 |
|---|--------|

Three Dozen in a Box.

DARBY CREEK



Heavy Round Oval Shape

| | |
|--|---------|
| Darby Creek—9 1/2 in. Long, a Coarse Fast Cutting Sandstone Grit, Weight Per Hundred 180 Lbs. | \$21.50 |
|--|---------|

Twenty-five in a Box.

ENGLISH ROUND



Round, Tapered Ends

| | |
|--|---------|
| Coarse Fast-Cutting Sand Stone Grit. Per 100 English Round—12 in. Long, Weight Per Hundred 200 Lbs. | \$33.55 |
|--|---------|

Twenty-five in a Box.

BENCH OILERS

COPPERED STEEL

Wide Mouth, Interchangeable Spouts

Cold Rolled Steel .025 Gauge Body, Clock Spring Steel Bottoms, Seamless Drawn Steel Bodies, Heavy Rolled Threads, Double Seamed and Rolled Bottoms, Heavily Electro Copper Plated, Wide Mouth Opening.



Nos. 12 to 15A

Bent Spout

| Nos. | 14 | 14-B | 16 |
|--------------------|--------|------|-------|
| Capacity, Pints... | 1½ | 1½ | 1 |
| Spout, Inches... | 9 | 9 | 9 |
| Dome, Inches... | 3½ | 3¾ | 4¼ |
| Height, Inches... | 11¾ | 11½ | 12½ |
| Wt. Dozen, Lbs... | 3 | 3½ | 4 |
| Per Dozen | \$6.50 | 8.50 | 10.50 |



Nos. 14, 14B, 16

Straight Spout

| Nos. | 12 | 13 | 13-A | 14-A | 14-AA | 15 | 15-A |
|--------------------|--------|------|------|------|-------|------|------|
| Capacity, Pints... | 1½ | 1½ | 1½ | 1½ | 1½ | 1 | 1 |
| Spout, Inches... | 3 | 3 | 5 | 3 | 5 | 3 | 5 |
| Dome, Inches... | 2¾ | 3½ | 3½ | 3¾ | 3¾ | 4¼ | 4¼ |
| Height, Inches... | 4¾ | 5¾ | 7¾ | 5¾ | 7¾ | 6¾ | 8¼ |
| Wt. Dozen, Lbs... | 2¼ | 2¾ | 2¾ | 3¼ | 3¼ | 3¾ | 3¾ |
| Per Dozen | \$4.50 | 5.50 | 6.00 | 7.50 | 8.00 | 9.25 | 9.75 |

One Dozen in a Carton.

GEM POLISHED STEEL

Brazed One-piece Heavy Sheet Steel Body

Tempered Spring Steel Bottom, One-piece Steel Neck, Brass Spelter Brazed, Cut Leather Washer, Heavy Gauge Brazed Steel Spout.



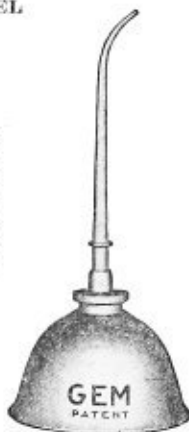
Straight Spout

| Nos. | 1604 | 1704 |
|-------------------------|--------|------|
| Capacity, Pints... | 1½ | 1½ |
| Diameter, Inches... | 3¾ | 3¾ |
| Length Spout, Inches... | 4 | 4 |
| Wt. Dozen, Lbs... | 4 | 4¾ |
| Per Dozen | \$5.00 | 6.00 |

Bent Spout

| Nos. | 1706 | 1809 | 1909 |
|-------------------------|--------|------|------|
| Capacity, Pints... | 1½ | ¾ | 1 |
| Diameter, Inches... | 3¾ | 4¾ | 4½ |
| Length Spout, Inches... | 6 | 9 | 9 |
| Weight Dozen, Lbs... | 4¾ | 5¾ | 6¾ |
| Per Dozen | \$6.50 | 8.00 | 9.00 |

One Dozen in a Box.



BENCH OILERS

BEACON FLEXIBLE SPOUT

Coppered Steel

Seven in., Flexible, will reach the most inaccessible oil hole. The spout won't break or crimp if stepped on or dropped. Heavy Copper Plated Steel Can. Cut Threads. Wide Mouth, Easy to fill. By bending the spout you can oil anywhere. Especially adapted for automobile and machine work.



| Nos. | A | B | C |
|----------------------|--------|------|-------|
| Capacity, Pints... | 1½ | 1½ | 1 |
| Dome, Inches... | 3½ | 3¾ | 4¼ |
| Weight Dozen, Lbs... | 3½ | 4 | 4½ |
| Per Dozen | \$7.80 | 9.60 | 10.08 |

One Dozen in a Box.

KOLAPS

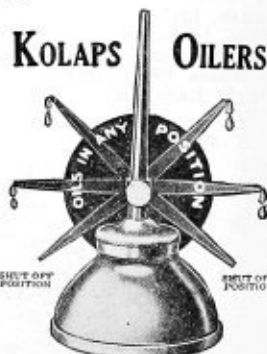
The All Purpose Oil Can

Heavy Gauge Steel, Copper Plated.

Bottoms are crimped so that leakage is impossible.

Simple in construction, no springs, nothing to get out of order.

Easily reaches inaccessible places, ejects oil at all angles, solves the problem of efficiently lubricating any machine, at the same time saves oil.



| Nos. | 1345 | 1465 | 1505 |
|----------------------|--------|-------|-------|
| Capacity, Pints... | 1½ | 1½ | 1 |
| Spout, Inches... | 4½ | 6½ | 10½ |
| Dome, Inches... | 3¾ | 3¾ | 4¼ |
| Weight Dozen, Lbs... | 3½ | 4 | 4½ |
| Per Dozen | \$9.00 | 10.00 | 12.00 |

When not in use, spout will fold against can, automatically shutting off flow of oil, and may be kept in tool box, occupying very little space. The spout can be moved to any angle and oils in any position.

One Dozen in a Box.

AUTOMOBILE PUMP OILERS

WALL SUPERIOR

With Swivel Spout

Steel Copper Plated, Brazed Steel Spout, Metal Pump Plunger, removable Check Valve. Swivel Spout can be moved in any direction.

A feature of this Oiler is the removable check valve. It can be removed and cleaned when clogged with a chip or a thread of waste.

| Nos. | 806 | 906 |
|-------------------------|---------|-------|
| Capacity, Pints... | 1½ | 1 |
| Diameter, Inches... | 3¾ | 4¼ |
| Length Spout, Inches... | 6 | 6 |
| Weight Dozen, Lbs... | 10¾ | 12¾ |
| Per Dozen | \$23.50 | 25.75 |

One-half Dozen in a Box.



CHACE OILERS

Stamped Tin Plate

Anti-Rust Finish, Tinned Spring Steel
Bottom, Seamless Body.

| Nos. | 00 | 0 | 1 |
|--------------------|--------|-------|-------|
| Capacity, Oz. | 1 | 1 1/2 | 2 1/2 |
| Spout, In. | 2 1/2 | 2 1/2 | 2 1/2 |
| Dome, In. | 2 1/2 | 2 1/2 | 2 1/2 |
| Height, In. | 3 3/4 | 4 1/8 | 4 1/2 |
| Height Dome, In. | 1 1/2 | 1 3/4 | 2 1/8 |
| Opening, In. | 5/8 | 5/8 | 5/8 |
| Weight Dozen, Lbs. | 3/4 | 7/8 | 1 1/8 |
| Per Dozen | \$1.00 | 1.25 | 1.50 |

| Nos. | 2 | 3 | 4 | 5 |
|--------------------|--------|-------|-------|-------|
| Capacity, Oz. | 4 | 7 | 10 | 12 |
| Spout, In. | 3 1/2 | 4 1/4 | 4 7/8 | 4 1/4 |
| Dome, In. | 3 1/2 | 3 5/8 | 4 1/2 | 4 1/2 |
| Height, In. | 6 1/8 | 7 3/8 | 8 3/8 | 8 1/8 |
| Height Dome, In. | 2 1/2 | 3 | 3 3/8 | 3 3/8 |
| Opening, In. | 5/8 | 5/8 | 5/8 | 5/8 |
| Weight Dozen, Lbs. | 1 3/4 | 2 3/4 | 3 | 3 1/2 |
| Per Dozen | \$2.00 | 2.25 | 2.75 | 3.50 |

One Dozen in a Carton.

PHONOGRAPH OILERS

EAGLE

One Piece Body, Double Seamed Bottom

| No. | 440 |
|--|--------|
| Capacity 1/2 Oz., 1 7/8 in. Diameter, 4 1/2 in. Spout, 5 1/4 in. Over All. | |
| 1/8 in. Spout Opening, Weight Per Dozen 7/8 Lb. | \$1.10 |

One Dozen in a Carton.



RAILROAD OILERS

COPPERED STEEL

Lower half of bottom made in one piece, making leakage impossible. Large 1 1/4 in. Opening, Interchangeable Spouts, Union Connections Enabling Spout to be pointed in any direction.

| Nos. | 10 | 11 |
|-----------------------|---------|--------|
| Capacity, Pints | 1 | 2 |
| Spout, Inches | 12 | 18 |
| Diameter of Dome, In. | 3 1/4 | 4 1/4 |
| Height Dome, In. | 5 1/8 | 5 3/8 |
| Height Over All, In. | 17 3/4 | 23 3/4 |
| Weight Dozen, Lbs. | 9 | 12 |
| Per Dozen | \$14.00 | 18.00 |

One-half Dozen in a Box.



IMPROVED COPPERED STEEL

Lower half of bottom made in one piece, making leakage impossible. Improved style handle that comfortably fits the hand and evenly distributes the additional weight of the oiler. The spout is made with extra large opening to allow increased flow of oil. Spouts are interchangeable and are made with Union connections so they may be turned in any direction. 1 1/4 inch opening.

| Nos. | 100 | 101 | 111 |
|----------------------|---------|--------|--------|
| Capacity, Pints | 1 | 2 | 4 |
| Spout, Inches | 12 | 12 | 12 |
| Diam. Dome, In. | 3 1/4 | 4 1/8 | 5 |
| Height Dome, In. | 5 1/8 | 5 1/8 | 7 3/8 |
| Height Over All, In. | 17 3/4 | 17 3/8 | 19 1/2 |
| Weight Dozen, Lbs. | 10 | 13 1/4 | 20 3/4 |
| Per Dozen | \$14.00 | 18.00 | 20.00 |

One-half Dozen in a Box.



ENGINEERS FILLERS

COPPERED STEEL



With 1 1/4 Inch Opening

Drawn from One Piece Extra Heavy Cold Rolled Steel, Copper Plated Inside and Outside, Highly Polished, Long Spout Opening.

| Nos. | 19 | 210 | 211 |
|-------------------------|---------|-------|--------|
| Capacity, Pints | 1 | 2 | 4 |
| Diameter, Inches | 4 1/4 | 5 | 6 |
| Height Dome, Inches | 4 1/8 | 5 | 6 |
| Height Over All, Inches | 6 1/2 | 4 1/2 | 5 1/2 |
| Weight Dozen, Lbs. | 7 1/2 | 11 | 15 1/2 |
| Per Dozen | \$14.00 | 20.00 | 24.00 |

The spout has a large opening and is connected close to the bottom of the can and at an angle to permit free flow of oil when tipped slightly forward.

One-half Dozen in a Box.

TALLOW POTS

COPPERED STEEL



With 1 1/2 Inch Opening

Drawn from One Piece Extra Heavy Cold Rolled Steel, Copper Plated Inside and Outside, Highly Polished, Long Spout Opening.

The cover is fastened to handle with brass chain

| Nos. | 212 | 213 |
|-------------------------|---------|-------|
| Capacity, Quarts | 1 | 2 |
| Diameter, Inches | 5 | 6 |
| Height Dome, Inches | 4 1/4 | 4 1/4 |
| Height Over All, Inches | 4 1/2 | 5 1/2 |
| Weight Dozen, Lbs. | 10 1/2 | 16 |
| Per Dozen | \$21.00 | 25.00 |

SAFETY CANS

JUSTRITE

No Waste or Leakage

Nozzle One Piece Heavy Bronze Casting with Two Spouts, One for Pouring and One for Filling.

Valve Stem has Airtight Seat Preventing Evaporation or Leakage.

If Gas is Generated by Excessive Heat, the Valve Releases and Allows it to Escape.

Body Heavy Coated Lead Plate.



| Nos. | 08 | 18 | 28 | 38 |
|-------------------|--------|-------|-------|-------|
| Capacity, Quarts | 1/2 | 1 | 2 | 4 |
| Weight Each, Lbs. | 1 1/2 | 1 3/4 | 3 1/2 | 4 1/4 |
| Each | \$1.80 | 2.00 | 2.50 | 3.00 |

One in a Package.

BRICK TROWELS

ROSE



No. 110—Philadelphia Pattern

Extra Quality Cast Steel Blade, Carefully Tempered, Ground and Polished, Solid Shank, Hardwood Handle, Polished Steel Ferrule.

| | | | | | |
|--------------------------|---------|-------|-------|-------|-------|
| Length, Inches..... | 10 | 10½ | 11 | 11½ | 12 |
| Width Blade, Inches..... | 5½ | 5¾ | 5¾ | 5¾ | 5¾ |
| Weight Dozen, Lbs..... | 12½ | 13 | 14 | 14½ | 15 |
| Per Dozen | \$28.00 | 29.00 | 30.00 | 31.00 | 32.00 |

One-half Dozen in a Box.



No. 310—Philadelphia Pattern, Leather Handle

Extra Quality, Cast Steel Blade, Carefully Tempered, Ground and Polished, Solid Shank, 5½ in. Handle, Polished Ferrule.

| | | | | |
|----------------------------|---------|-------|-------|-------|
| Length, Inches..... | 10½ | 11 | 11½ | 12 |
| Width Blade, Inches..... | 5¾ | 5¾ | 5¾ | 5¾ |
| Weight Per Dozen, Lbs..... | 13 | 14 | 14½ | 15 |
| Per Dozen | \$33.20 | 34.20 | 35.20 | 36.20 |

One-half Dozen in a Box.



No. 221—Wide Heel Pattern

Extra Quality Cast Steel Blade, Carefully Tempered, Ground and Polished, Solid Shank, Hardwood Handle, Polished Steel Ferrule.

| | | | |
|----------------------------|---------|-------|-------|
| Length, Inches..... | 10½ | 11 | 11½ |
| Width Blade, Inches..... | 6 | 6 | 6 |
| Weight Per Dozen, Lbs..... | 14½ | 14½ | 14½ |
| Per Dozen | \$30.00 | 31.00 | 32.00 |

One-half Dozen in a Box.



No. 321—Wide Heel Pattern, Leather Handle

Extra Quality Cast Steel Blade, Carefully Tempered, Ground and Polished, Solid Shank, Polished Steel Ferrule.

| | | | |
|----------------------------|---------|-------|-------|
| Length, Inches..... | 10½ | 11 | 11½ |
| Width Blade, Inches..... | 6 | 6 | 6 |
| Weight Per Dozen, Lbs..... | 14 | 14½ | 14½ |
| Per Dozen | \$34.00 | 35.00 | 36.00 |

One-half Dozen in a Box.

MARSHALLTOWN



No. 19W—Philadelphia Pattern

Flexible High Grade Crucible Steel Blade, Tempered, Ground and Polished, Hardwood Handle, Polished Steel Ferrule.

| | | | |
|----------------------------|---------|-------|-------|
| Length, Inches..... | 10½ | 11 | 11½ |
| Width Blade, Inches..... | 5¾ | 5¾ | 5¾ |
| Weight Per Dozen, Lbs..... | 13 | 13½ | 14 |
| Per Dozen | \$24.00 | 24.00 | 24.00 |

One-half Dozen in a Box.

BRICK TROWELS

MARSHALLTOWN



No. 19L—Philadelphia Pattern, Leather Handle

One Piece Forged Highest Grade Crucible Steel Blade, Post and Tang, Oil Hardened and Tempered, Hand-Smithed, Taper Ground and Highly Polished, Natural Finish Post, Leather Wound Handle, 6 in. Long, Polished Steel Ferrule, 1½ in. Long.

| | | | |
|----------------------------|---------|-------|-------|
| Length Blade, Inches..... | 10½ | 11 | 11½ |
| Width Heel, Inches..... | 5½ | 5½ | 5¾ |
| Weight Per Dozen, Lbs..... | 12½ | 13½ | 14½ |
| Per Dozen | \$27.00 | 27.00 | 27.00 |

One-half Dozen in a Box.

DISSTON



No. 12—Philadelphia Pattern

Light Weight Flexible Crucible Steel Blade, Polished Heavy Steel Ferrule, Hardwood Handle.

| | | | |
|----------------------------|---------|-------|-------|
| Length, Inches..... | 10½ | 11 | 11½ |
| Width Blade, Inches..... | 5¾ | 5¾ | 5¾ |
| Weight Per Dozen, Lbs..... | 13½ | 14 | 14½ |
| Per Dozen | \$28.00 | 28.50 | 29.00 |

One-half Dozen in a Box.

DISSTON IMPROVED



No. 36—Wide Heel Pattern

Light Weight Flexible Crucible Steel Blade, Taper Ground and Polished, Heavy Steel Ferrule, Hardwood Handle.

| | | |
|----------------------------|---------|-------|
| Length, Inches..... | 10½ | 11 |
| Width Blade, Inches..... | 6 | 6 |
| Weight Per Dozen, Lbs..... | 14 | 14 |
| Per Dozen | \$29.00 | 30.00 |

The steel tang is spiral shaped. The hardwood handle is forced onto the tang with a revolving motion at great pressure.

One-half Dozen in a Box.

STANDARD



No. 152—Philadelphia Pattern

Forged Steel Blade, Tempered, Ground and Polished, Solid Shank, Hardwood Handle, Polished Steel Ferrule.

| | | | | | |
|------------------------|---------|-------|-------|-------|-------|
| Length, Inches..... | 8 | 9 | 10 | 11 | 12 |
| Weight Dozen, Lbs..... | 9 | 10 | 11 | 12 | 13 |
| Per Dozen | \$15.25 | 15.75 | 16.50 | 16.75 | 17.50 |

One-half Dozen in a Box.

HANDY



No. 170—Riveted Shank

Cast Steel Blade, Hardwood Handle, Steel Ferrule.

| | |
|----------------------------|--------|
| Length, Inches..... | 10 |
| Weight Per Dozen, Lbs..... | 6 |
| Per Dozen | \$4.00 |

One Dozen in a Box.

PLASTERING TROWELS**MARSHALLTOWN FINISHING****Finest Quality Crucible Spring Steel Blade**

Ground 23 Gauge in Center to 25 Gauge on Edge, Hardened Mountings, Full Polished Blade and Mountings, Ten Rivets, Plain White Handle.

| Nos. | MF3 | MF6 | MF7 |
|----------------|---------|--------|-------|
| Length, Inches | 11 | 11 1/2 | 12 |
| Width, Inches | 4 3/4 | 5 | 5 |
| Per Dozen | \$30.00 | 30.00 | 30.00 |

Average Weight Per Dozen 13 Pounds.
One-third Dozen in a Box.

MARSHALLTOWN BROWNING**Flat Face, Crucible Spring Steel Blade**

Ground Full Taper, Hardened Mountings, Full Polished Blade and Mountings, Twelve Rivets, Plain White Handle.

| Nos. | MB3 | MB6 | MB7 |
|----------------|---------|--------|-------|
| Length, Inches | 11 | 11 1/2 | 12 |
| Width, Inches | 4 3/4 | 5 | 5 |
| Per Dozen | \$30.00 | 30.00 | 30.00 |

Average Weight Per Dozen 14 Pounds.

These Trowels are light in weight and very rigid. The handles are smooth turned and shaped for comfortable grip.

Marshalltown Trowels are produced for the craftsman who demands the best that is available.

One-third Dozen in a Box.

DISSTON FINISHING TROWELS**No. 38—Special Shaped Handle**

Crucible Steel Blade, 24 Gauge, Slightly Concave, Ten Rivet Mounting, Specially Shaped Handle to Fit the Hand.

| | | | |
|--------------------|---------|--------|--------|
| Length, Inches | 10 1/2 | 11 | 11 1/2 |
| Width, Inches | 4 1/2 | 4 5/8 | 4 3/4 |
| Weight Dozen, Lbs. | 11 | 11 1/2 | 12 |
| Per Dozen | \$30.50 | 32.50 | 34.25 |

One-half Dozen in a Box.

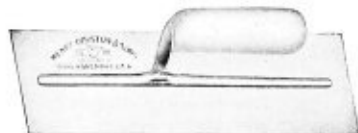
Disston Trowels are made from the highest grade of crucible steel, carefully tempered and ground. The handles are mounted in the most approved manner.

**No. 28—Thin Blade, Ten Rivets**

Highest Grade Crucible Steel Blade, 24 Gauge, Tempered and Accurately Ground, Polished Wood Handle.

| | | | |
|--------------------|---------|-------|--------|
| Length, Inches | 10 1/2 | 11 | 11 1/2 |
| Width, Inches | 4 1/2 | 4 5/8 | 4 3/4 |
| Weight Dozen, Lbs. | 10 1/2 | 11 | 11 1/2 |
| Per Dozen | \$29.50 | 32.00 | 33.70 |

One-half Dozen in a Box.

PLASTERING TROWELS**DISSTON****No. 16—Western Pattern**

Crucible Steel Tempered and Ground, Long Mounting with Shield, Tang Extends Through Handle, Fastened with Flush Barrel Nut, End of Handle Beveled for Thumb Rest, Seven Rivets, Spun Polished Handle.

| | | | |
|---------------------|---------|-------|--------|
| Length, Inches | 10 1/2 | 11 | 11 1/2 |
| Width Blade, Inches | 4 | 4 3/4 | 4 3/8 |
| Weight Dozen, Lbs. | 11 1/2 | 12 | 12 1/2 |
| Per Dozen | \$27.50 | 29.50 | 31.00 |

One-half Dozen in a Box.

STANDARD**No. 150—Regular Pattern**

Cast Steel Blade, Tempered and Polished, Hardwood Handle.

| | | | | | |
|-----------------|---------|--------|-------|--------|-------|
| Length, Inches | 10 | 10 1/2 | 11 | 11 1/2 | 12 |
| Wt. Dozen, Lbs. | 9 | 10 | 11 | 12 | 13 |
| Per Dozen | \$14.25 | 15.00 | 15.75 | 17.00 | 18.50 |

One-half Dozen in a Box.

HANDY**For Home or Farm Use**

Bright Steel Blade, Forged Steel Shank, Natural Wood Handle.

No. 180—10 in. Long, Weight Per Dozen 10 Lbs. \$4.00

One-half Dozen in a Box.

CORNER TROWELS

No. 65.



No. 67.

Cast Steel Blades, Full Polished, Mounting Riveted to Blades, Hardwood Handles, Mortised and Fastened with Screws.

No. 65—Inside Angle, 6 in. Long, Weight Per Dozen 12 Lbs. \$12.00

No. 67—Outside Angle, 6 in. Long, Weight Per Dozen 12 Lbs. 12.00

One-half Dozen in a Box.

POINTING TROWELS

DISSTON



No. 15—Regular Pattern

High Grade Crucible Steel Blade, Tempered and Polished, Solid Shank, Hardwood Handle, Steel Ferrule.

| | | | |
|------------------------|---------|-------|-------|
| Length, Inches | 5 | 6 | 7 |
| Weight Per Dozen, Lbs. | 3 1/2 | 4 | 5 |
| Per Dozen | \$10.25 | 11.00 | 12.00 |

One-half Dozen in a Box.

STANDARD



No. 55—Regular Pattern

Cast Steel Blade, Tempered and Polished, Solid Shank, Hardwood Handle, Steel Ferrule.

| | | | |
|------------------------|--------|------|------|
| Length, Inches | 5 | 6 | 7 |
| Weight Per Dozen, Lbs. | 3 1/2 | 4 | 5 |
| Per Dozen | \$7.20 | 8.00 | 9.00 |

One-half Dozen in a Box.

HANDY



Bright Steel Blade, Natural Wood Handle

| | |
|--|------------------|
| No. 160—5 1/2 in. Blade, Weight Per Dozen 3 1/2 Lbs. | Per Dozen \$2.50 |
|--|------------------|

One Dozen in a Box.

GAUGING TROWELS

DISSTON



Round Nose

High Grade Crucible Steel Blade, Tempered and Polished, Solid Shank, Hardwood Handle, Steel Ferrule.

| | |
|---|-------------------|
| No. 14—7 1/2 in. Blade, Weight Per Dozen 6 1/2 Lbs. | Per Dozen \$24.00 |
|---|-------------------|

One-half Dozen in a Box.

MARGIN TROWELS

DISSTON



Standard Pattern

High Grade Crucible Steel Blade, Tempered and Polished, Solid Shank, Hardwood Handle.

| | | |
|------------------------|--------|-------|
| Nos. | 25 | 28 |
| Length Blade, Inches | 4 | 5 |
| Width Blade, Inches | 1 1/2 | 2 |
| Weight Per Dozen, Lbs. | 3 | 3 3/4 |
| Per Dozen | \$7.50 | 7.50 |

One-half Dozen in a Box.

PLASTERERS MITERING TOOLS

GENUINE TYZACK



Right Flexible Reaf and Square End

High Grade Sheffield English Steel, Carefully Tempered and Polished.

| | |
|--|-------------------|
| No. C25—Assorted 1/2 to 1 in. Wide, Weight Per Dozen 1 Lb. | Per Dozen \$15.00 |
|--|-------------------|

One Dozen in a Box.

WOOD FLOATS



Clear Seasoned Red Wood

Square Edges, Smooth Finished, Wood Handle.

| | |
|--|-----------|
| No. 44—12 in. Long, 5 in. Wide, 3/4 in. Thick. | Per Dozen |
| Weight Per Dozen 13 Lbs. | \$6.00 |

One-third Dozen in a Box.

CORK FACED



For Cement Workers and Plasterers

Selected Cork Face 3/4 in. Thick, Glued to Wood Back 1/2 in. Thick, with Smooth Wood Handle.

| | |
|--|-----------|
| No. 42—10 1/2 in. Long, 4 in. Wide, 1 1/4 in. Thick. | Per Dozen |
| Weight Per Dozen 10 Lbs. | \$13.50 |

One-quarter Dozen in a Box.

CORK FLOATS



Solid Cork

Smoothed on Both Sides for Plasterers Use.

| | | |
|------------------------|--------|-------|
| Nos. | 5 | 6 |
| Length, Inches | 11 | 12 |
| Width, Inches | 4 | 5 |
| Weight Per Dozen, Lbs. | 5 | 5 1/2 |
| Per Dozen | \$8.00 | 9.50 |

Open Stock.

PLASTERERS ANGLE PADDLES



Seasoned Hard Maple

Beveled to a Working Edge, 7 1/2 in. Long, 2 3/4 in. Wide.

| | |
|------------------------------------|------------------|
| No. 336—With Plain Edge | Per Dozen \$3.00 |
| No. 337—With Inserted Bronze Blade | 4.00 |

Weight Per Dozen 4 Pounds.
One-half Dozen in a Box.

PLASTERERS MITER RODS



With 45 Degree Angle

High Grade Crucible Steel, Tempered and Polished, Beveled on Long Edge.

| | | | | |
|------------------------|---------|-------|-------|-------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Width, Inches | 3 1/2 | 3 1/2 | 3 1/2 | 3 3/4 |
| Weight Per Dozen, Lbs. | 4 1/2 | 6 | 7 1/2 | 9 |
| Per Dozen | \$6.00 | 8.00 | 9.00 | 14.50 |
| Length, Inches | 14 | 16 | 18 | 18 |
| Width, Inches | 4 | 4 1/4 | 4 1/4 | 4 1/4 |
| Weight Per Dozen, Lbs. | 10 1/2 | 15 | 18 | 18 |
| Per Dozen | \$16.00 | 17.50 | 20.50 | 20.50 |

One-half Dozen in a Box.

PLASTERERS HAWKS

MARSHALLTOWN ALUMINUM



Hard Rolled Aluminum

Slightly Oval Face, Detachable Hardwood Handle, Patent Aluminum Flange $3\frac{3}{4}$ in. Diameter, 5 in. Detachable Handle with Threaded Bolt extends all the way through. Each Hawk supplied with soft rubber Callous Preventer.

| | | |
|------------------------|---------|-----------------------------------|
| Nos. | 1 | 2 |
| Size, Inches | 13x13 | $13\frac{1}{2}$ x $13\frac{1}{2}$ |
| Weight Per Dozen, Lbs. | 25 | 27 |
| Per Dozen | \$33.00 | 34.00 |

One-quarter Dozen in a Box.

WOOD



Thoroughly Seasoned Redwood

Dovetailed Wedge, Adjustable Softwood Handle.

| | |
|--|-----------|
| No. 22—13x13 in., Weight Per Dozen 23 Lbs. | Per Dozen |
| | \$15.00 |
| One-third Dozen in a Box. | |

CALLOUS PREVENTERS



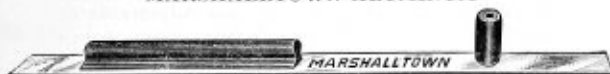
For Use on Plasterers Hawks

Made of Sponge Rubber, Protect the Hands from Callouses.

| | |
|--|-----------|
| No. 0— $3\frac{3}{4}$ in. Diameter, $\frac{1}{4}$ in. Thick, with $1\frac{1}{4}$ in. Hole for Hawk Handle. | Per Dozen |
| | \$3.00 |

PLASTERERS DARBIES

MARSHALLTOWN ALUMINUM

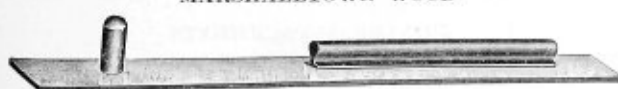


Hard Rolled Aluminum

Black Enameled Wood Rib, One Detachable Straight Enameled Wood Handle.

| | |
|---|-----------|
| No. 2— $3\frac{1}{2}$ x44 in., 18 in. Rib, Weight Each 2 $\frac{1}{4}$ Lbs. | Per Dozen |
| | \$36.00 |
| One-half Dozen in a Box. | |

MARSHALLTOWN WOOD



Strong Grained Cedar

Smooth Finish, Detachable Upright Handle.

| | |
|--|-----------|
| No. 02— $3\frac{1}{2}$ x44 in., 18 in. Rib, Weight Each 1 $\frac{3}{4}$ Lbs. | Per Dozen |
| | \$9.00 |
| One-half Dozen in a Box. | |

PLASTERERS BRUSHES

Extra Extra

Finest Grade Special Selected Bristles.

| | |
|-------------------|--------|
| No. 4—8 in. Wide. | Each |
| | \$8.25 |

Special

Standard Selected Bristles.

| | |
|-------------------|--------|
| No. 2—8 in. Wide. | Each |
| | \$6.00 |

Browning

Regular Mixed Bristles.

| | |
|-------------------|--------|
| No. 1—8 in. Wide. | Each |
| | \$4.50 |

Six in a Box.



PLASTERERS IMITATION TILE MARKERS



No. 1.

No. 2.

Polished Spring Steel Blade

Hardwood Handle, Polished Steel Ferrule.

| | |
|---|-----------|
| No. 1— $\frac{1}{2}$ in. Cutter, Weight Each 2 Oz. | Per Dozen |
| | \$6.00 |
| No. 2— $2\frac{1}{2}$ in. Cutter, Weight Each 2 $\frac{1}{2}$ Oz. | 6.00 |
| One-half Dozen in a Box. | |

BRICK JOINTERS



For Rodded Joints

| | |
|--|-----------|
| No. 302—8 in. Long, $\frac{5}{8}$ in. at Center, Tapering to $\frac{1}{8}$ in. at Both Ends, Weight Per Dozen 3 Lbs. | Per Dozen |
| | \$8.00 |
| One-half Dozen in a Box. | |

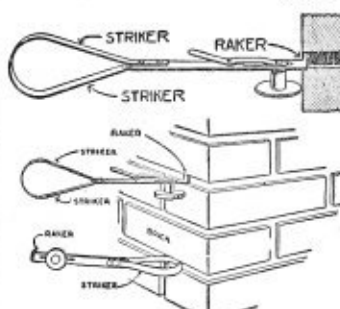


For "V" and Rodded Joints

| | |
|--|-----------|
| No. 402—8 in. Long, $\frac{3}{4}$ in. at Center, Tapering to $\frac{1}{8}$ in. at Both Ends, Weight Per Dozen 3 Lbs. | Per Dozen |
| | \$8.00 |
| One-half Dozen in a Box. | |

COMBINATION JOINT RAKERS

GUNN



A Raker, Jointer and Striker Combined

The revolving wheel prevents wear and will not mar the work. Adjustable to any depth by means of a lever makes a smooth perfect raked out joint.

| | |
|---|-----------|
| No. 1—8 $\frac{1}{2}$ in. Long, Rakes Joints $\frac{1}{4}$ to $\frac{1}{2}$ in. | Per Dozen |
| | \$6.00 |
| One-half Dozen in a Box. | |

CEMENT WORKERS TOOLS

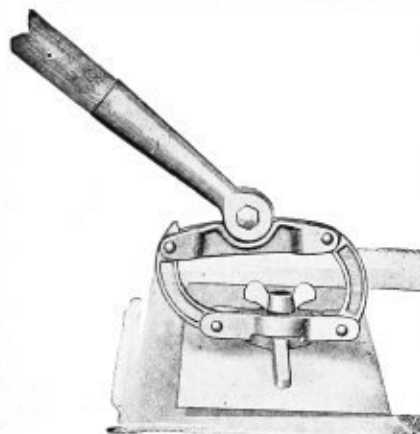
ABRAM DOUBLE ACTING

The full lines on cut show the "Abram" Patent Automatic Wrist Motion Device in the position as being pushed from the operator, the device lifting the front edge slightly to prevent the trowel blade digging into the mortar.

The dotted lines show the device in the position as being pulled toward the operator, and the relation of the tool to the surface is reversed.

Thus by the mere act of pushing or pulling tool back and forth over the surface to be finished the "Wrist Motion" Device Automatically gives the blade the proper position for correct work.

Abram Tools are sold on the guarantee that one man can do more and better work with them than three men can do with ordinary tools. No user has ever disputed this claim, but many say they can do much more.



Cut Showing How the Wrist Motion Performs the Work.

ABRAM FINISHING TROWEL



Highest Grade Trowel Steel, Polished

Each

No. 1B—24 in. Long, 5 in. Wide, Steel Mounting Rib, 6 ft. Extra Quality Ash Handle, Wrist Motion Adjustable to Any Desired Angle by Wing Nut, Weight 5 Lbs. \$7.50

The capacity of this tool in comparison with old style methods are astonishing. This tool does away with back-aches, bruised knees, tired and aching muscles, knee pads and foot boards.

ABRAM EDGER



Double Action

Each

No. 30—10 in. Long, 3 1/4 in. Wide, 7/8 in. Form Face, About 3/8 in. Radius, Nicked Iron Blade, Nicked Malleable Fittings, 6 ft. Handle, Weight 5 Lbs. \$5.00

PARTS FOR ABRAM CEMENT WORKERS TOOLS

TROWEL BLADES



For No. 1B Finishing Trowel

Each

No. 39—24 in. Long, 5 in. Wide, Weight Each 2 1/2 Lbs. \$5.00

FLOAT BLADES



For No. 4 Float

Each

No. 59—24 in. Long, 6 in. Wide, Weight Each 4 Lbs. \$5.00

JOINTER BLADES



For No. 2 Jointer

Each

No. 40—16 in. Long, 5 in. Wide, Weight Each 1 1/4 Lbs. \$4.25

ABRAM JOINTER



Highest Grade Trowel Steel, Polished

Each

No. 2—16 in. Long, 5 in. Wide, Steel Mounting Rib, 6 ft. Extra Quality Ash Handle, Wrist Motion Adjustable to Any Desired Angle by Wing Nut, Bronze Metal Joint, Making Clean Straight Cut, Weight 5 Lbs. \$7.00

The joint is a slip-on attachment and any number may be used on the same tool for grooving driveways and crossings.

ABRAM FLOAT



Highest Grade Soso Steel, Polished

Each

No. 4—24 in. Long, 6 in. Wide, 3/4 in. Thick, with Beveled Face, Steel Mounting Rib, 6 ft. Extra Quality Ash Handle, Wrist Motion Adjustable to Any Desired Angle, Weight 8 Lbs. \$7.50

Better than any other kind of Float.

EDGER BLADES



For No. 30 Edger

Each

No. 41—10 in. Long, 3 1/4 in. Wide, Weight Each 1 1/4 Lbs. \$3.00

JOINTER ATTACHMENTS



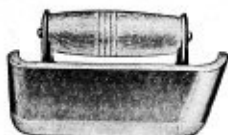
For Use with No. 2 Jointer

Any number of these V-shaped Joints can be attached to the No. 2 Jointer at the desired distances converting this tool into a Driveway Groover or for making parallel joints any distance within range of the blade.

No. 43—Nickel Plated Iron, Weight Each 7 Oz. \$0.90

CEMENT WORKERS TOOLS

EDGERS



Iron, Nickel Plated

Each

- No. 1—6 in. Long, 3 in. Wide, $\frac{3}{8}$ in. Radius, Weight Each $1\frac{1}{2}$ Lbs. \$1.20
- No. 3—6 in. Long, 3 in. Wide, $\frac{3}{8}$ in. Radius, Weight Each $1\frac{1}{2}$ Lbs. 1.30
- No. 1A—With One Square End, Otherwise Same as No. 1 1.20
- No. 1B—6 in. Long, $2\frac{1}{4}$ in. Wide, $\frac{3}{8}$ in. Radius with One Square End, Weight Each $1\frac{1}{2}$ Lbs. 1.20

Two in a Box.



Iron, Nickel Plated

Each

- No. 2—8 in. Long, $2\frac{1}{2}$ in. Wide, $\frac{1}{2}$ in. Radius, Weight Each 2 Lbs. \$1.20
- No. 2A—8 in. Long, 3 in. Wide, $\frac{3}{8}$ in. Radius Weight Each $1\frac{1}{2}$ Lbs. 1.20

Two in a Box.



Iron, Nickel Plated

Each

- No. 5—7 in. Long, 3 in. Wide, $\frac{3}{8}$ in. Radius, $1\frac{1}{2}$ in. Turned Edge, Weight Each $1\frac{1}{2}$ Lbs. \$1.70

Two in a Box.



Iron, Nickel Plated

Each

- No. 6B—6 in. Long, $2\frac{1}{4}$ in. Wide, $\frac{1}{2}$ in. Bevel, Weight Each $1\frac{1}{2}$ Lbs. \$1.20

Used for Bevel Edges.

Two in a Box.



Iron, Nickel Plated

Each

- No. 7A—6 in. Long, $1\frac{1}{2}$ in. Wide, Weight Each $1\frac{1}{2}$ Lbs. \$1.20

Two in a Box.

CURB EDGERS



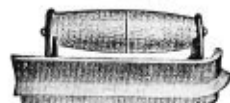
Iron, Nickel Plated

Each

- No. 38—7 $\frac{1}{2}$ in. Long, $3\frac{1}{2}$ in. Wide, 2 in. Turned Edge, $\frac{1}{2}$ in. Radius, Weight Each $2\frac{1}{2}$ Lbs. \$2.50

Two in a Box.

JOINTERS



Iron, Nickel Plated

Each

- No. 20—6 in. Long, 3 in. Wide, One End Straight to Cut Joint in Sharp Corners, Cuts Thin Groove, $\frac{1}{2}$ in. Deep for Sidewalks, Weight Each $1\frac{1}{4}$ Lbs. \$1.20
- No. 20B—6 in. Long, $2\frac{1}{4}$ in. Wide, Cuts Thin Groove $\frac{1}{2}$ in. Deep, Weight Each $1\frac{1}{4}$ Lbs. 1.20
- No. 21—6 in. Long, 3 in. Wide, Cuts Heavy Groove for Driveway 1.30

Two in a Box.



Iron, Nickel Plated

Each

- No. 22—6 in. Long, 3 in. Wide, Cuts Thin Groove for Sidewalks, $\frac{1}{2}$ in. Deep, Weight Each $1\frac{1}{4}$ Lbs. \$1.20
- No. 22A—Cuts $\frac{1}{2}$ in. Groove, Otherwise Same as No. 22 1.20

Two in a Box.



Iron, Nickel Plated

Each

- No. 24—7 $\frac{3}{4}$ in. Long, 2 in. Wide, $\frac{3}{8}$ in. Radius, Cuts Thin Groove for Sidewalks, $\frac{3}{8}$ in. Deep, Weight Each $1\frac{1}{4}$ Lbs. \$1.20

Two in a Box.



Iron, Nickel Plated

Each

- No. 28—6 in. Long, $4\frac{3}{4}$ in. Wide, Cuts Thin Groove $\frac{5}{8}$ in. Deep, Weight Each $1\frac{1}{4}$ Lbs. \$2.00

Two in a Box.

INSIDE SQUARE ANGLE



Iron, Nickel Plated

Each

- No. 30 $\frac{1}{2}$ —6 in. Long, $1\frac{1}{2}$ in. Sides, Weight Each $1\frac{1}{2}$ Lbs. \$1.30

Two in a Box.

OUTSIDE SQUARE ANGLE



Iron, Nickel Plated

Each

- No. 31 $\frac{1}{2}$ —6 in. Long, Sides $1\frac{1}{2}$ in. High, Weight Each $1\frac{1}{2}$ Lbs. \$1.20

Two in a Box.

CEMENT WORKERS TOOLS

OUTSIDE ROUND ANGLE



Iron, Nickel Plated

Each

No. 33—8 in. Long, 2 1/4 in. Sides, 3/4 in. Radius,
Weight Each 1 1/2 Lbs. \$2.00

No. 33 1/2—8 in. Long, 2 1/4 in. Sides, 2 in. Radius,
Weight Each 1 3/4 Lbs. 2.50

Two in a Box.

STEP NOSING TOOL



Iron, Nickel Plated

Each

No. 12—6 in. Long, 3/4 in. Nosing, 4 in. Top, Weight
Each 2 Lbs. \$2.50

Two in a Box.

GUTTER TOOL



Iron, Nickel Plated

Each

No. 40—9 in. Long, 6 in. Wide, 1 in. Deep, Weight
Each 2 1/2 Lbs. \$2.50

Two in a Box.

CORRUGATING TOOL



Iron, Nickel Plated

Each

No. 75—6 in. Long, 4 in. Wide, Makes 10 Grooves
1/2 in. Deep, 3/8 in. Apart, Weight Each 2 Lbs. \$3.00

Two in a Box.

FLOOR EDGER



Polished Steel Blade, Hardwood Handle

Each

No. 165—5 1/2 in. Long, 4 in. Wide, Weight Each 7/8
Lbs. \$1.00

Six in a Box.

SANITARY BASE TOOL



Polished Steel Blade, Hardwood Handle

Each

No. 108—8 in. Long, 6 in. Sides, 1 in. Radius, Weight
Each 2 1/2 Lbs. \$3.50

Six in a Box.

CEMENT WORKERS TOOLS

DOUBLE END CONCAVE BEADING TOOLS



Iron, Nickel Plated

Two Sizes in One, Makes Half Round Beads.

| Nos. | 47A | 47B | 47C | 47D | 47E |
|---------------|-------------|-------------|-------------|-------------|-------------|
| Size, Inches. | 1 1/8 x 3/8 | 1 1/8 x 1/4 | 1 1/4 x 3/8 | 1 1/4 x 1/2 | 1 1/2 x 1/2 |
| Each | \$1.20 | 1.20 | 1.20 | 1.20 | 1.20 |

Six in a Box.

DOUBLE END CONVEX BEADING TOOLS



Iron, Nickel Plated

Two Sizes in One, Makes Half Round Depression.

| Nos. | 48A | 48B | 48C | 48D | 48E |
|---------------|-------------|-------------|-------------|-------------|-------------|
| Size, Inches. | 1 1/8 x 3/8 | 1 1/8 x 1/4 | 1 1/4 x 3/8 | 1 1/4 x 1/2 | 1 1/2 x 1/2 |
| Each | \$1.20 | 1.20 | 1.20 | 1.20 | 1.20 |

Six in a Box.

MASONS JOINTERS



For Masons, Brick and Cement Work

Forged Steel, Black Finish, Polished Ends. Each

No. 200—1/2 in. Thick One End; Other End 3/8 in.
Thick, Grooved Ends, Weight Each 1/2 Lb. \$0.60

Twelve in a Box.

MASONS HANDLED JOINTERS



For Masons, Brick and Cement Work

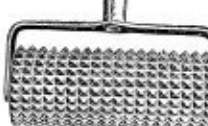
Forged Steel, Polished, Hardwood Handle. Each

No. 201—1/4 in. Thick, with Round Edges, Weight
Each 7 Oz. \$0.85

Twelve in a Box.

SOLID IMPRINT ROLLER

Iron, Nickel Plated, Iron Handle



| Nos. | 60A | 60B | 60C |
|----------------|--------|-------|-------|
| Length, In. | 4 | 6 | 8 |
| Diam., Inches. | 3 1/2 | 3 1/2 | 3 1/2 |
| Wt. Each, Lbs. | 10 | 12 | 15 |
| Each | \$8.00 | 10.00 | 12.00 |

TAMPERS

CAST IRON

With Gas Pipe Handle

Cast in One Solid Piece, Japanned, for
general use in tamping dirt, cinders, etc.
Particularly adapted for cement workers
use.

Particular attention is called to the ad-
vantage of the gas pipe handles over the
old style wood handles as they eliminate
breakage and are much more convenient
to use.

No. 92A—Round

| Size | 2 | 3 | 4 |
|---------------------|--------|------|------|
| Diam. Face, Inches. | 5 | 6 | 6 |
| Weight Each, Lbs. | 19 | 24 | 34 |
| Each | \$2.30 | 2.90 | 4.10 |

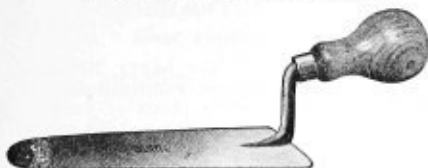
No. 92A.

No. 93A—Square

| Size | 5 | 6 |
|-------------------|--------|------|
| Face, Inches | 6x6 | 8x8 |
| Weight Each, Lbs. | 16 | 21 |
| Each | \$2.00 | 2.50 |

No. 93A.

No. 1 FINISHING TROWELS



| | | | |
|---------------|---------|---------|---------------|
| Size, Inches. | 6x1 1/4 | 6x1 1/2 | 6 1/2 x 1 1/2 |
| Each | \$0.80 | .90 | .95 |

| | | |
|---------------|---------|---------------|
| Size, Inches. | 6x1 3/4 | 6 1/2 x 1 3/4 |
| Each | \$1.00 | 1.05 |

| | | |
|---------------|---------|---------|
| Size, Inches. | 7x1 1/2 | 7x1 3/4 |
| Each | \$1.05 | 1.15 |

SQUARE TROWELS



| | | | |
|---------------|---------|---------|---------------|
| Size, Inches. | 6x1 1/4 | 6x1 1/2 | 6 1/2 x 1 1/2 |
| Each | \$0.80 | .90 | .95 |

| | | |
|---------------|---------|------|
| Size, Inches. | 7x1 1/2 | 6x2 |
| Each | \$1.05 | 1.10 |

| | | |
|---------------|-----------|------|
| Size, Inches. | 6 1/2 x 2 | 7x2 |
| Each | \$1.15 | 1.25 |

GATE CUTTERS AND SPOONS



| | | | |
|------------------|--------|-------|-------|
| No. 11 | | | |
| Width, Inches... | 1 | 1 1/4 | 1 1/2 |
| Each | \$0.60 | .70 | .80 |

BENCH LIFTERS



| | | | |
|------------------|--------|-----|-----|
| No. 12 | | | |
| Width, Inches... | 1 1/8 | 1/4 | 3/8 |
| Each | \$0.40 | .45 | .55 |

| | | | |
|------------------|--------|-----|-----|
| Width, Inches... | 1/2 | 5/8 | 3/4 |
| Each | \$0.60 | .65 | .70 |



| | | | |
|------------------|--------|-----|-------|
| No. 13 | | | |
| Width, Inches... | 1 1/8 | 1/2 | 1 1/2 |
| Each | \$0.50 | .55 | .60 |

BENT BENCH LIFTERS



| | | | | |
|--------------|--------|-----|-----|-----|
| No. 14 | | | | |
| Width, In... | 3/8 | 1/2 | 5/8 | 3/4 |
| Each | \$0.55 | .60 | .65 | .70 |

DOUBLE SQUARES



| | | | | |
|--------------|--------|-----|-----|-----|
| No. 37 | | | | |
| Width, In... | 1/2 | 5/8 | 3/4 | 1 |
| Each | \$0.60 | .65 | .70 | .75 |

MOULDERS TOOLS

TAPER AND SQUARE SPOONS



| | | | |
|------------------|--------|-------|-------|
| No. 28 | | | |
| Width, Inches... | 1 | 1 1/4 | 1 1/2 |
| Each | \$0.65 | .75 | .85 |

SLICK AND OVAL SPOON



| | | | |
|--------------|--------|-----|-------|
| No. 29 | | | |
| Width, In... | 3/4 | 1 | 1 1/4 |
| Each | \$0.60 | .65 | .75 |

HEART AND SQUARE SPOONS



| | | | |
|--------------|--------|-------|-------|
| No. 30 | | | |
| Width, In... | 1 | 1 1/4 | 1 1/2 |
| Each | \$0.60 | .70 | .80 |

HEART AND OVAL SPOONS



| | | | |
|--------------|--------|-------|-------|
| No. 31 | | | |
| Width, In... | 1 | 1 1/4 | 1 1/2 |
| Each | \$0.60 | .70 | .80 |

LIFTERS



| | | | |
|-------------|--|--|--|
| No. 42 | | | |
| Prices Each | | | |

| | | | |
|-----------------|--------|-----|-----|
| Length, In... | 10 | 12 | 14 |
| 3/8 in. Wide... | \$0.60 | .65 | .70 |
| 1/2 in. Wide... | .65 | .70 | .75 |
| 5/8 in. Wide... | .75 | .80 | .85 |
| 3/4 in. Wide... | .80 | .85 | .90 |

| | | | |
|-----------------|--------|-----|------|
| Length, In... | 16 | 18 | 20 |
| 3/8 in. Wide... | \$0.75 | .80 | .85 |
| 1/2 in. Wide... | .80 | .85 | .90 |
| 5/8 in. Wide... | .85 | .90 | .95 |
| 3/4 in. Wide... | .90 | .95 | 1.00 |

NOTE—We shall be pleased to furnish Any Other Tools not shown in this Catalog.

BOX LIFTERS



| | | |
|-------------------|--------|------|
| No. 48 | | |
| Length, Inches... | 14 | 16 |
| Width, Inches... | 5/8 | 5/8 |
| Each | \$1.20 | 1.25 |

| | | |
|-------------------|--------|------|
| Length, Inches... | 16 | 18 |
| Width, Inches... | 3/4 | 3/4 |
| Each | \$1.30 | 1.35 |

FLAT AND CIRCULAR FLANGES



| | | |
|------------------|--------|------|
| No. 50 | | |
| Width, Inches... | 1/2 | 5/8 |
| Each | \$1.00 | 1.10 |
| Width, Inches... | 3/4 | 1 |
| Each | \$1.20 | 1.40 |

PIPE SLICKS



| | | |
|------------------|--------|-------|
| No. 52 | | |
| Width, Inches... | 1 | 1 1/2 |
| Each | \$0.60 | .60 |

BUTTON SLICKS



| | | |
|------------------|--------|-----|
| No. 54 | | |
| Width, Inches... | 1 1/2 | 2 |
| Each | \$0.60 | .60 |

SQUARE CORNERS



| | | |
|------------------|--------|-----|
| No. 55 | | |
| Width, Inches... | 1 1/2 | 2 |
| Each | \$0.65 | .70 |

INSIDE SQUARE CORNERS



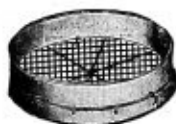
| | | |
|------------------|--------|-------|
| No. 56 | | |
| Width, Inches... | 2 | 2 1/2 |
| Each | \$0.85 | .90 |

HALF ROUND CORNERS



| | | |
|------------------|--------|-------|
| No. 57 | | |
| Width, Inches... | 1 | 1 1/4 |
| Each | \$0.60 | .65 |
| Width, Inches... | 1 1/2 | 2 |
| Each | \$0.70 | .75 |

FOUNDRY RIDDLES



Extra Heavy, 18 in. Diameter
Heavy Wood Rims, Extra Heavy
Wire Reinforced with Heavy Cross
Bars.
Extra care is taken in the manufac-
ture of these Riddles and they will out
wear any other make.

No. 20—Steel Wire

| | | | | | | |
|----------------|---------|-------|-------|-------|-------|-------|
| Mesh, Per In. | 2 | 3 | 4 | 5 | 6 | 8 |
| Per Dozen | \$16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 |
| Mesh, Per Inch | 10 | 12 | 14 | 16 | 18 | |
| Per Dozen | \$16.00 | 16.00 | 16.00 | 16.00 | 16.00 | |

No. 30—Galvanized Steel Wire

| | |
|----------------|---------|
| Mesh, Per Inch | 18 |
| Per Dozen | \$18.00 |

No. 40—Brass Wire

| | | | | | | |
|----------------|---------|-------|-------|-------|-------|-------|
| Mesh, Per In. | 2 | 3 | 4 | 5 | 6 | 8 |
| Per Dozen | \$26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 |
| Mesh, Per Inch | 10 | 12 | 14 | 16 | 18 | |
| Per Dozen | \$26.00 | 26.00 | 26.00 | 26.00 | 26.00 | |

Weight Per Dozen, 50 Pounds.
One-half Dozen in a Crate.

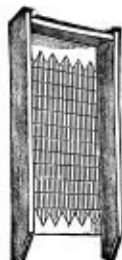
SAND SCREENS

Solid Pine Frame, Extra Heavy Steel Wire

These Sand Screens have an established
reputation for reliability and long wear.

They are made of the best material by ex-
perienced workmen and are made to stand
hard usage.

The Improved Process of lacing or wrap-
ping these screens make them the strongest
and most durable on the market.



Each

No. 4—5½ ft. Long, 24 in. Wide, Screening Surface
3½ x 1½ ft., Weight Each 22½ Lbs. \$6.60

BELLOWS MOULDERS



No. 100—Leather Covered

Seasoned Straight Grain Lumber, Steel Hinge, Heavy
Galvanized Iron Nozzle.

| | | | | | | |
|----------------|---------|-------|-------|-------|-------|-------|
| Length, Inches | 8 | 9 | 10 | 12 | 14 | 16 |
| Wt. Doz., Lbs. | 20 | 25 | 40 | 50 | 60 | 70 |
| Per Dozen | \$24.00 | 27.00 | 30.00 | 39.00 | 48.00 | 54.00 |

PIANO OR HAND



No. 104—Leather Covered

Seasoned Straight Grained Lumber, Long Pointed Nozzle.

| | |
|------------------------|---------|
| Length, Inches | 7 |
| Weight Per Dozen, Lbs. | 18 |
| Per Dozen | \$21.00 |

MORTAR HODS



NEVER DRIP Sheet Steel

Made with a heavy Rolled
Wire Edge for reinforcement,
Pressed Steel Socket Fork,
Wooden Shoulder Saddle and
Handle.

Each

No. 158—26 in. Long, 12 in. Wide, 11½ in. Deep,
Weight Each 11 Lbs. \$3.00

These Hods overcome the disagreeable faults of other
hods by eliminating the dripping of the contents down
back of the carrier.

BRICK HODS

STANDARD

Sheet Steel

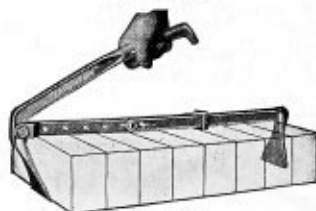
Strongly Reinforced on all
Edges, Wooden Shoulder Sad-
dle, Pressed Steel Socket
Fork, perfect in all respects.
Wooden Handle.



Each

No. 162—22 in. Long, 10 in. Wide, 7 in. Deep, Weight
Each 6½ Lbs. \$2.35

BRICK CLAMPS DONLEY



Adjustable

Malleable Iron, nicely finished. Handles Bricks with-
out injury to the bricks or the workman's hand. Picks
up and discharges instantly. Lever Grip is sure. Made
to stand rough usage.

Each

No. 201—Holds 8 or More Bricks Weight Each 6
Lbs. \$2.50

TOOL CLASPS FORG

Spring Brass

For holding Tools and other articles for
Store Display Cases, for Tool Cabinets and
for Household Purposes.

| | | | |
|--------------------|--------|-------|-------|
| Nos. | 235 | 236 | 237 |
| Size Clasp, Inches | 5/8 | 7/8 | 1 1/8 |
| Length, Inches | 1 1/2 | 1 3/4 | 1 3/4 |
| Weight Gross, Lbs. | 1 1/8 | 2 | 3 3/8 |
| Per Dozen | \$0.60 | .70 | 1.00 |

Nos. 235 and 236, One Gross; No. 237, One-half Gross
in a Box.



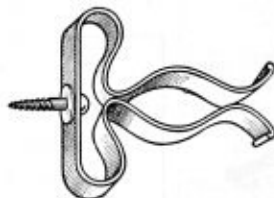
THREE IN ONE

Spring Steel

Made with Gimlet Pointed
Square-shouldered Screw
that will not loosen. The
loops form a handle like a
Gimlet, so that holder is
easily screwed into place.
The main Clasp holds regu-
lar size articles, the two
loops are for holding small
items.

Per Dozen

3 In 1 Holders—In Display Box \$1.20
One Dozen in a Box.



TOOL BAGS

MASONS



No. 225—All Canvas

Heavy One Piece White Duck, Double Thick Bottom with Heavy Straw Board Filling, Lock Stitched Double, 12 Gauge Steel Frame, Riveted Steel Bottom, Studs Complete with Lock and Key, Leather Handles.

| | | | | | |
|-----------------------|--------|--------|--------|--------|--------|
| Length, Inches..... | 16 | 18 | 20 | 22 | 24 |
| Height, Inches..... | 13 | 15 1/2 | 15 1/2 | 15 1/2 | 15 1/2 |
| Width Bottom, Inches. | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 |
| Weight Each, Lbs..... | 3 | 3 | 3 1/2 | 4 | 4 1/4 |
| Each | \$4.00 | 4.25 | 4.50 | 4.75 | 5.00 |

BRICKLAYERS AND MASONS

No. 240—Leather Trimmed

Heavy One Piece Brown Duck, Chrome Leather Trim, 3 1/2 in. Leather One-Piece Sides and Bottom, Leather Welt, Steel Studs, Lock-Stitch Sewing, Riveted Frame of Steel, Harness Leather Handles and Straps passing around Bag.



| | | |
|-----------------------|--------|--------|
| Length, Inches..... | 18 | 20 |
| Height, Inches..... | 15 1/2 | 15 1/2 |
| Width Bottom, Inches. | 5 1/2 | 5 1/2 |
| Weight Each, Lbs..... | 4 1/4 | 4 1/2 |
| Each | \$9.00 | 9.50 |

LINEMENS



No. 250—Leather Bottom

Heavy One Piece White Duck, Trimmed for 3 1/2 in. from Bottom with Heavy Bag Leather, Double 12 Gauge Steel Frame, Steel Bottom Studs, Two Fastening Straps with Buckles, Leather Handles.

| | | |
|-----------------------|--------|--------|
| Length, Inches..... | 18 | 20 |
| Height, Inches..... | 15 1/2 | 15 1/2 |
| Width, Inches..... | 5 1/2 | 5 1/2 |
| Weight Each, Lbs..... | 5 | 5 1/2 |
| Each | \$7.50 | 8.00 |

Leather on sides and bottom of one piece. This arrangement avoids any possibility of sewing ripping or rotting and also practically makes the bottom and sides waterproof. More than doubles the life of the bag. All sewing is lock stitch.

TOOL BAGS

ELECTRICIANS



No. 345—Genuine Cowhide Leather

Two Leather Shoulder Straps, Pad and Handle and Saw or Bit Holder Straps, Bottom is Three-ply and equipped with Steel Studs.

Retaining Straps pass clear around the Bag. Black Finish.

| | | | |
|---------------------|--------|------|-------|
| Length, Inches..... | 18 | 20 | 22 |
| Height, Inches..... | 7 | 7 | 7 |
| Width, Inches..... | 8 | 8 | 8 |
| Weight, Lbs..... | 5 1/2 | 6 | 6 1/2 |
| Each | \$8.80 | 9.20 | 9.60 |

This Tool Bag while being particularly adapted for electricians use will also be found practical for plumbers, wiremen, gas fitters, piano tuners or almost any other class of mechanics.

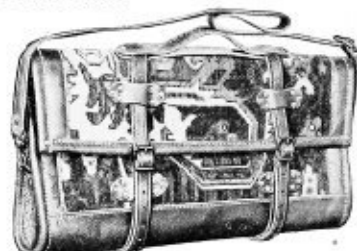
The shoulder straps can be detached if desired and the bag used as a hand satchel.

PLUMBERS

Carpet

Leather Trimmed

The Latest Improved Style of Tool Kit for Plumbers use.



No. 368—24 in. Long, 12 in. High, with Leather Gussets Tapering from 4 in. at the Bottom to 1 1/2 in. at the top. 3 1/2 in. Leather Reinforcement at Bottom and 3/4 in. at Gusset and Top. Weight Each 5 Lbs. \$14.50

CARPENTERS APRONS

Heavy Grade Duck

With Hammer Strap and Four Pockets Securely Riveted, Leather Corner Reinforcements; Extra Well Stitched, Substantial, Well Made and Attractive.

They are very Durable, Give Perfect Fit and Comfort to the User.

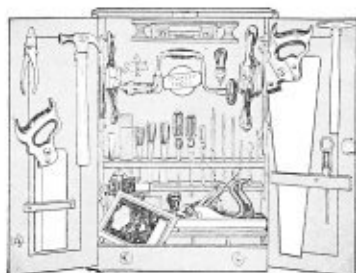


No. A8W—White, 20 in. Wide, 20 in. High, Weight Per Dozen 3 Lbs. \$6.50
No. A8B—Brown, 20 in. Wide, 20 in. High, Weight Per Dozen 3 Lbs. 7.50

One Dozen in a Bundle.

TOOL CABINETS

STANLEY



Equipped with Stanley High Grade Tools

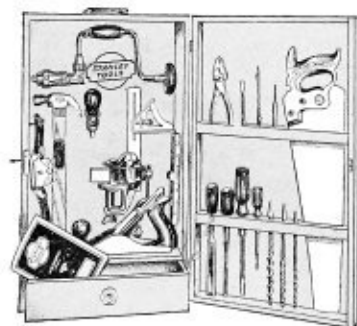
Each

No. 851—Contains 35 Stanley Tools, Put Up in Rich Dark Stained Oak Cabinet 26½ in. High, 19½ in. Wide, and 8 in. Deep, with Paneled Doors Hung on Brass Hinges and with Brass Lock, Drawer in Base for Holding Small Tools, Nails, etc., Weight 52 Lbs. \$65.00

Contents of No. 851 Cabinet

- | | |
|------------------------------------|--|
| 1 Hammer, 13 oz., No. 15. | 1 Bit Gauge, No. 49. |
| 1 Hammer, 4 oz., No. 147. | 1 Chisel, ½ in., No. 40. |
| 1 Saw (Hand), 20 in. | 1 Chisel, ¾ in., No. 40. |
| 1 Saw (Back), 10 in., No. 4. | 1 Chisel, 1 in., No. 40. |
| 1 Saw (Keyhole), No. 1. | 1 Cold Chisel, 3x6 in., No. 1A. |
| 1 Saw (Coping), with 12 Blades. | 1 Vise, 1½ in. Jaws, No. 741. |
| 1 Screw Driver, 5 in., No. 20. | 1 Gauge (Marking and Mortise), No. 98. |
| 1 Screw Driver, 4 in., No. 40. | 1 Combination Square, 9 in., No. 21. |
| 1 Screw Driver, 3 in., No. 50. | 1 Bevel 8 in., No. 25. |
| 1 Rule (Zig Zag), 5 ft. No. 105. | 1 Spoke Shave, No. 151. |
| 1 Plane (Bench), 11½ in., No. 5½. | 1 Plumb and Level, 12 in., No. 36G. |
| 1 Plane (Block), 6 in., No. 60. | 1 Nail Set, 2/32 in., No. 11. |
| 1 Scraper, No. 80. | 1 Hollow Handle Tool Set, No. 305. Contains One Each, Chisel, Reamer, Scratch Awl, Screw Driver, Tack Puller, Belt Awl and Six Brad Awns Assorted. |
| 1 Bit Brace, 8 in., No. 915. | 1 Pair Pliers, No. 66. |
| 1 Auger Bit, ½ in. | 1 Oil Stone No. 29. |
| 1 Auger Bit, ¾ in. | |
| 1 Auger Bit, 1 in. | |
| 1 Gimlet Bit, No. 6. | |
| 1 Screw Driver Bit, ½ in., No. 26. | |

1 Package Corrugated Fasteners.



Equipped with Stanley High Grade Tools

Each

No. 862—Contains 20 Stanley Tools, Put Up in 14 in. Wide, 6¼ in. Deep, 22 in. Long Oak Cabinet, Finished in a Dark Stain and Varnished, Sides Set in, Joints Nailed and Glued, 3 Hinges, Lock and Carrying Handle, Weight Each 22 Lbs. \$35.00

Contents of No. 862 Cabinet

- | | |
|----------------------------------|--|
| 1 Hammer, 13 oz., No. 12. | 1 Screw Driver Bit, ½ in., No. 26. |
| 1 Screw Driver, 5 in., No. 20. | 1 Pair Pliers. |
| 1 Screw Driver, 3 in., No. 50. | 1 Hollow Handle Tool Set, No. 305. Contains One Each, Chisel, Reamer, Scratch Awl, Screw Driver, Tack Puller, Belt Awl and Six Brad Awns Assorted. |
| 1 Rule (Zig Zag), 4 ft., No. 04. | 1 Vise, No. 741. |
| 1 Saw (Hand), 18 in. | 1 Combination Square, 9 in., No. 21. |
| 1 Plane (Bench), 8 in., No. 3. | 1 Nail Set, 2/32 in., No. 11. |
| 1 Chisel, ½ in., No. 40. | |
| 1 Chisel, ¾ in., No. 40. | |
| 1 Spoke Shave, No. 151. | |
| 1 Bit Brace, 8 in., No. 945. | |
| 1 Auger Bit, ½ in. | |
| 1 Auger Bit, ¾ in. | |
| 1 Auger Bit, 1 in. | |
| 1 Gimlet Bit, No. 6. | |

1 Package Corrugated Fasteners.

TOOL CABINETS

STANLEY

Equipped with Stanley High Grade Tools

No. 903—Contains 17 Stanley Tools, in Stained Oak Cabinet 21 in. Long, 11½ in. Wide and 4 in. Deep, Tops and Bottom Set In, Joints Nailed and Glued, 3 Hinges, 2 Catches and Carrying Handle, Weight 16 Lbs. \$20.00



Contents of No. 903 Cabinet

- | | |
|--|------------------------------------|
| 1 Hammer, 13 oz., No. 12. | 1 Chisel, ¾ in., No. 50. |
| 1 Screw Driver, 5 in., No. 20. | 1 Bit Brace, 8 in., No. 945. |
| 1 Screw Driver, 3 in., No. 50. | 1 Auger Bit, ½ in. |
| 1 Rule (Zig Zag), 4 ft., No. 04. | 1 Auger Bit, ¾ in. |
| 1 Saw (Hand), 16 in. | 1 Gimlet Bit, No. 6. |
| 1 Try and Mitre Square, 7½ in., No. 2. | 1 Screw Driver Bit, ½ in., No. 26. |
| 1 Marking Gauge, No. 62. | 1 Awl, No. 1. |
| 1 Plane (Block), 7 in., No. 220. | 1 Vise, No. 741. |
| 1 Chisel, ½ in., No. 50. | |

1 Package Corrugated Fasteners.

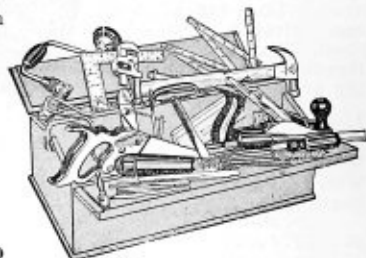
TOOL CHESTS

STANLEY

Equipped with Stanley High Grade Tools

Each

No. 888B—Contains 18 Stanley Tools in Stained Oak Chest, 20 in. Long, 10½ in. Wide, 8 in. Deep with Hinged Cover and Brass Carrying Handle. A Sliding Drawer Inside for Small Tools, Nails, Etc., Weight 19 Lbs. \$15.00



Contents of No. 888B Chest

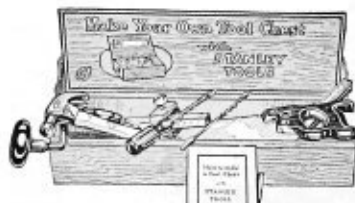
- | | |
|---|---|
| 1 Hammer, 13 oz., No. 12. | 1 Carpenters Steel Square, 12 in., No. 10. |
| 1 Saw Panel, 16 in. | 1 Hollow Handle Tool Set, No. 305. Contains One Each, Chisel, Reamer, Scratch Awl, Screw Driver, Tack Puller, Belt Awl and Six Brad Awns and with Extra 6½ in. Saw. |
| 1 Saw (Coping) with 12 Extra Blades, No. 100. | 1 Adjustable Pipe Wrench, 19 in. |
| 1 Screw Driver, 4 in., No. 20. | 1 Pair Pliers. |
| 1 Rule (Zig Zag), 4 ft., No. 04. | 1 Glass Cutter, No. 300. |
| 1 Plane (Bench), 8 in., No. 3. | 1 Sharpening Stone. |
| 1 Bit Brace, 8 in., No. 945. | |
| 1 Auger Bit, ½ in. | |
| 1 Auger Bit, ¾ in. | |
| 1 Gimlet Bit, No. 6. | |
| 1 Chisel, ¾ in., No. 40. | |
| 1 Cold Chisel, ½x6 in., No. 1A. | |

1 Package Corrugated Fasteners.

STANLEY TOOL ASSORTMENTS

Make Your Own Tool Chest

Each



No. 907—Assortment, 7 Tools in Card-board Box, 1 Each 10 oz. Nail Hammer, 2 ft. Rule, 4 in. Screw Driver, 14 in. Hand Saw, 8 in. Bit Brace, ¾ in. Auger Bit and Marking Gauge. Weight 4 Lbs. \$5.00

MACHINISTS TOOL CHESTS

UNION



Plain Oak, Five Drawers

Lock-Cornered Joints, 3-Ply Veneer Bottom, Leather Handle, Nickel Plated Steel Corners, Flush Ring Pulls, Solid Brass Lock with 2 Keys. Has Two Rows of Pulls Instead of One as Illustrated.

Drawers are not lined.

Each

No. XG20—5 Drawers, 18 1/4 x 6 x 2 1/2 in., 1 1/2, 1 1/2, 7/8 and 3/4 in., Outside Dimensions 20 in. Long x 7 3/4 in. Wide x 10 3/4 in. High, Weight Each 17 Lbs. \$12.00

Quartered Oak, Six Drawers

Lock-Cornered Joints, 3-Ply Veneer Bottom, Leather Handle, Nickel Plated Steel Corners, Flush Ring Pulls, Solid Brass Lock with 2 Keys, Dark Oak Finish, Waterproof, Varnished with Dull Rub Finish. Drawers Felt Lined.



Each

No. D-17—2 Short Drawers 7x6x7/8 in., 1 Short Drawer 7x6x2 1/2 in., 3 Long Drawers 15 1/4 x 6 x 2 1/2, 1 1/2 and 1 1/2 in. Deep, Outside Dimensions 17 in. Long x 7 3/4 in. Wide x 10 3/4 in. High, Weight Each 15 1/2 Lbs. \$13.80



Quartered Oak, Eight Drawers

Lock-Cornered Joints, 3-Ply Veneer Bottom, Leather Handle, Nickel Plated Steel Corners, Flush Ring Pulls, Solid Brass Lock with 2 Flat Keys, Dark Oak Finish, Waterproof, Varnished with Dull Rubbed Finish, all Drawers are Green Felt Lined.

Each

No. F-17—4 Short Drawers 7x7x7/8 in., 1 Short Drawer 7x7x2 1/2 in., 3 Long Drawers 15 1/4 x 7 in. x 1 1/2, 1 1/2 and 2 1/2 in., Outside Dimensions 17 in. Long, 8 3/4 in. Wide, 12 in. High, Weight Each 18 Lbs. \$14.50

No. F-20—4 Short Drawers 8 1/2 x 7 x 7/8 in., 1 Short Drawer 8 1/2 x 7 x 2 1/2 in., 3 Long Drawers 18 1/4 x 7 in. x 1 1/2, 1 1/2 and 2 1/2 in., Outside Dimensions 20 in. Long, 8 3/4 in. Wide, 12 in. Deep, Weight Each 21 Lbs. 15.50

Till Top Cover with Mirror

Quartered Oak, Seven Drawers

Lock-Cornered Joints, 3-Ply Veneer Bottom, Leather Handle, Nickel Plated Trimmings, Brass Lock with 2 Flat Steel Keys, Flush Ring Pulls, Waterproof Varnish, Dark Oak Rubbed Finish Paneled Back and Front, All Drawers and the Till Cover are Green Felt Lined.



Each

No. B-20—4 Short Drawers 8 1/2 x 6 x 7/8 in., 1 Short Drawer 8 1/2 x 6 x 2 1/2 in., 2 Long Drawers 18 1/4 in. x 7/8 and 2 1/2 in., Till and Cover 19x6 1/4 x 3 in., Outside Dimensions 20 in. Long, 7 3/4 in. Wide, 12 3/4 in. High, Weight Each 20 3/4 Lbs. \$18.80

MACHINISTS TOOL CHESTS

UNION



Till Top Cover with Mirror, Leatherette Covered, Seven Drawers

Solid Mahogany Drawer and Till Fronts, Bottom and Sides of Tills are Lined with Green Felt, Three-Ply Veneer Bottom, Leather Handles, Nickel Plated Trimmings, Brass Lock with 2 Flat Steel Keys, Flush Ring Pulls.

Each

No. A-20—4 Short Drawers 8 1/2 x 6 x 7/8 in., 1 Short Drawer 8 1/2 x 6 x 2 1/2 in., 2 Long Drawers 18 1/4 x 6 in. x 7/8 and 2 1/2 in., Till and Cover 16x6x3 in., Outside Dimensions 20 in. Long, 7 3/4 in. Wide, 12 3/4 in. High, Weight Each 18 Lbs. \$20.80

UNION GARAGE

For Garage Use—Oak Oilproof Black Finish

Two Small Top Drawers are fitted with movable partitions for small parts and for delicate instruments such as battery gauges, etc. The Third Drawer from the top is designed to hold a complete set of socket wrenches.



The bottom compartment is a tray made of solid oak throughout, fitted with a handle which drops down into the drawer when not in use.



Each

No. XK-20—2 Drawers 4x7 3/8 x 7/8 in., 1 Drawer 4x7 3/8 x 2 1/2 in., 2 Drawers 12 7/8 x 7 3/8 x 7/8 in., 1 Drawer 12 7/8 x 7 3/8 x 2 1/2 in., 1 Drawer 18 1/4 x 7 3/8 x 2 1/2 in., 1 Tray 18x7 3/8 x 3 1/2 in., Outside Dimensions 20 1/4 in. Long x 9 3/4 in. Wide x 13 1/4 in. High, Weight Each 24 1/4 Lbs. \$16.50

KENNEDY ALL STEEL



Will Not Swell, Warp or Crack

Reinforced at all points of straining. The drawers run on tracks which cannot let them drop out of place regardless of the weight of their contents.

Extra till under lid and all drawers felt lined.

Each

No. 515—Inside Dimensions, Till Under Lid 15 1/8 x 6 5/8 x 3 3/4 in., Large Deep Drawer 14 5/8 x 6 1/2 x 2 1/4 in., Large Shallow Drawer 14 5/8 x 6 1/2 x 1 1/4 in., Short Deep Drawer 7x6 1/2 x 1 3/4 in., Short Shallow Drawer 7x6 1/2 x 3/4 in., 15 1/2 in. Long x 7 in. Wide x 12 1/2 in. High, Weight Each 16 Lbs. \$16.50

No. 519—Inside Dimensions, Till Under Lid 18 3/8 x 7 3/8 x 3 3/4 in., Long Deep Drawer 18 1/8 x 7 1/2 x 2 1/4 in., Long Shallow Drawer 18 1/8 x 7 1/2 x 1 1/4 in., Short Deep Drawer 8 3/4 x 7 1/2 x 1 3/4 in., Short Shallow Drawer 8 3/4 x 7 1/2 x 3/4 in., 19 in. Long x 8 in. Wide x 12 1/2 in. High, Weight Each 19 1/2 Lbs. 17.50

TOOL BOXES

KENNEDY MECHANICS KITS

Complete with Tray

Sheet Steel, Baked Brown Enamelled Finish, Brass Catches and Corners, Fitted with Strong Two Tumbler Lock, Leather Covered Steel Handle, Double Seamed, Electric Welded and Reinforced Throughout.



| | | | | | |
|-------------------|--------|------|------|------|------|
| Nos. | 114 | 116 | 118 | 120 | 122 |
| Length, Inches | 14 | 16 | 18 | 20 | 22 |
| Width, Inches | 7 | 9 | 10 | 11 | 11 |
| Height, Inches | 9 | 11 | 13 | 13 | 13 |
| Weight Each, Lbs. | 6 | 8 | 10 | 11½ | 12¼ |
| Each | \$5.25 | 5.50 | 5.75 | 6.00 | 6.25 |

KENNEDY GARAGE KITS



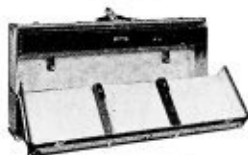
For Shop or Outside Work

Sheet Steel, Brown Enamelled Finish, Brass Catches and Corners, Two Tumbler Lock, Leather Covered Steel Handle, Equipped with Two Trays, the upper tray may be removed from the case and used about the shop with just the tools necessary for the job.

| | |
|--|----------------|
| No. 716—16 in. Long, 7 in. Wide, 9 in. High, Weight Each 8½ Lbs. | Each \$6.50 |
|--|----------------|

CARPENTERS TOOL CASES

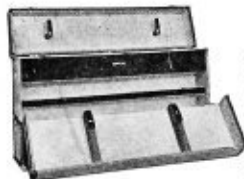
UNION



Zinc Covered

Lock Cornered Wood Boxes, Lacquered Zinc Covered and Bound with Black Enamelled Steel Angle, Brass Plated Lock with 2 Keys Brass Plated Corner Catches and Clamps Leather Covered Handle, has Place for Three Saws, Level Brackets and Place for Framing Square, the Tray pulls out and is always level.

| | |
|---|-----------------|
| No. Z732—32 in. Long, 7 in. Wide, 16¼ in. High, Weight Each 19 Lbs. | Each \$11.60 |
|---|-----------------|



With Built-In Tray

This Case is of the same general construction as the No. 732, except that the top opens and the shelf under tray may be used for small Planes, Gauges, Oil Stones, etc. It is equipped with Saw and Level Racks and place for holding Framing Square.

| | |
|--|-----------------|
| No. Z632—32 in. Long, 7 in. Wide and 16¼ in. Long, Weight Each 21 Lbs. | Each \$13.30 |
|--|-----------------|

CARPENTERS SHOULDER BOXES

UNION

Zinc Covered

Saw Block in top will carry three Saws, Lock Cornered, Brass Plated Lock with 2 Keys.

| | |
|---|----------------|
| No. Z132—30 in. Long, 8½ in. Wide, 8 in. High, Weight Each 14½ Lbs. | Each \$7.50 |
|---|----------------|



CARPENTERS TOOL CASES

WIZARD

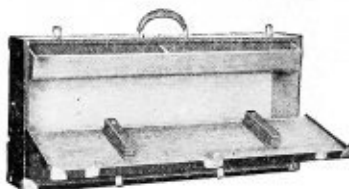


Metal Covered

Olive Green Enamelled Metal Covering, Equipped with 31 in. Drawer for Small Tools, Brackets for 30 in. Level, Space for Planes, etc.; high enough to accommodate a regular Standard Square.

Blocks in Drop Front for Three 26 in. Saws

| | |
|---|----------------|
| No. GL732—32 in. Long, 7 in. Wide, 16 in. High, Weight Each 23 Lbs. | Each \$9.45 |
|---|----------------|



Three-Ply Wood, Golden Oak Finish

Equipped with 31 in. Drawers for Small Tools, Brackets for 30 in. Levels, Space for Planes, etc., high enough to accommodate a regular Standard Square.

Blocks in Drop Front for Three 26 in. Saws

| | |
|---|----------------|
| No. GI632—32 in. Long, 7 in. Wide, 16 in. High, Weight Each 19 Lbs. | Each \$8.30 |
|---|----------------|

GENERAL PURPOSE TOOL CASES

UNION

With Automatic Tray

Lock-Cornered Wood Frame, Zinc Covered, Corner Bindings Made of Steel Rust-Proof Black Enamel Finish, Brass Plated Lock, Clasps, Corners and Hinges Securely Riveted. Lock has Two Flat Steel Keys, Leather Covered Steel Handle with Brass Plated Steel Loops.

The Tray Automatically Raises with the Top and always remains level and out of the way.



| | | | | |
|-------------------|--------|------|------|------|
| Nos. | Z216 | Z219 | Z222 | Z225 |
| Length, Inches | 16 | 19 | 22 | 25 |
| Weight Each, Lbs. | 8 | 9 | 10 | 11 |
| Each | \$5.80 | 6.10 | 6.50 | 7.10 |

WIZARD

For Auto Mechanics, Electricians and General Use

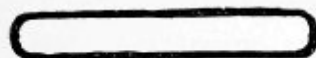


Well Constructed Wood Frame is Covered with Olive Green Enamelled Metal, Galvanized Iron Angles protect all Edges and the Corners, Locks and Strong Clamps are Heavily Brass Plated. The Indestructible Steel Handle and All Other Hardware is properly attached with Clinched Rivets instead of Clinched Nails.

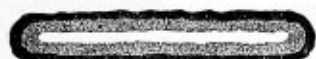
Fitted with Strong Metal Tray

| | |
|---|----------------|
| No. GL219—19 in. Long, 8 in. Wide, 8 in. High, Weight Each 7 Lbs. | Each \$4.55 |
|---|----------------|

RAYBESTOS BRAKE LINING



SURFACE TREATMENT



PARTIAL IMPREGNATION



RAYBESTOS-TREATED CLEAR THROUGH

The Raybestos Company is the only firm engaged in the manufacture of both brakes and brake lining, and the advantage gained from being able to study brake mechanisms and brake problems at close range, has resulted in the manufacture of a lining best adapted to meet actual brake service conditions.

Material and Construction: Raybestos is a solid, woven asbestos fabric, made of 90% to 95% long-fiber asbestos, and interwoven with brass wires. It contains no layers or plies or rubber compound that might loosen under extreme heat, oil or weather conditions.

Impregnation and Heat-Treatment: Raybestos is impregnated with a special heat and wear resisting compound that gives it a wearing life found in no other brake lining. The treatment given Raybestos is so thorough that there isn't a fiber in its construction that isn't saturated with this special compound before it enters the ovens where it is literally baked at a degree of heat unattainable in normal brake service. It can readily be understood that the thorough impregnation of Raybestos enables the lining to function efficiently down to shim thickness, whereas surface-treated or semi-treated linings soon wear down to their soft and flabby parts and become inefficient.



Adaptability: Raybestos can be used wherever a high-grade friction is required. It is not only adaptable as a Brake Lining and Clutch Facing on automobiles and trucks, but can be used also for the same purpose on mill transmission equipment, hoisting machines, elevators, mining machinery, etc.

Note: The genuine has silver edges, and the name **Raybestos** stamped on every foot. As there are many imitations, it is important that you always look for these distinguishing marks.

PRICES PER LINEAL FOOT

Sizes Set off by Heavy Rule are Standard Sizes—Balance are Industrial Sizes.

Thickness, Inches.

| Width Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | 1 |
|------------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|---------|
| 1 | \$0.40 | \$0.45 | \$0.50 | \$0.60 | \$0.70 | \$0.83 | \$0.96 | | | |
| 1 $\frac{1}{8}$ | .45 | .50 | .55 | .65 | .75 | .92 | 1.06 | | | |
| 1 $\frac{1}{4}$ | .50 | .55 | .60 | .70 | .80 | .98 | 1.16 | | | |
| 1 $\frac{1}{2}$ | .60 | .65 | .70 | .80 | .90 | 1.13 | 1.35 | | | |
| 1 $\frac{3}{4}$ | .70 | .75 | .80 | .90 | 1.00 | 1.27 | 1.54 | | | |
| 2 | .80 | .85 | .90 | 1.05 | 1.20 | 1.47 | 1.73 | | | |
| 2 $\frac{1}{4}$ | .90 | .95 | 1.00 | 1.15 | 1.30 | 1.62 | 1.93 | | | |
| 2 $\frac{1}{2}$ | 1.00 | 1.05 | 1.10 | 1.30 | 1.50 | 1.81 | 2.12 | | | |
| 2 $\frac{3}{4}$ | 1.10 | 1.15 | 1.20 | 1.40 | 1.60 | 1.96 | 2.31 | | | |
| 3 | 1.20 | 1.25 | 1.30 | 1.50 | 1.70 | 2.10 | 2.50 | \$3.60 | | |
| 3 $\frac{1}{4}$ | 1.25 | 1.33 | 1.40 | 1.60 | 1.80 | 2.25 | 2.69 | 3.87 | | |
| 3 $\frac{1}{2}$ | 1.30 | 1.40 | 1.50 | 1.70 | 1.90 | 2.39 | 2.88 | 4.16 | | |
| 3 $\frac{3}{4}$ | 1.35 | 1.48 | 1.60 | 1.83 | 2.05 | 2.57 | 3.08 | 4.44 | | |
| 4 | 1.40 | 1.55 | 1.70 | 1.95 | 2.20 | 2.74 | 3.27 | 4.72 | | |
| 4 $\frac{1}{4}$ | 1.50 | 1.65 | 1.80 | 2.08 | 2.35 | 2.91 | 3.46 | 5.00 | | |
| 4 $\frac{1}{2}$ | 1.60 | 1.75 | 1.90 | 2.20 | 2.50 | 3.08 | 3.65 | 5.28 | | |
| 4 $\frac{3}{4}$ | 1.70 | 1.85 | 2.00 | 2.30 | 2.60 | 3.23 | 3.85 | 5.57 | | |
| 5 | 1.98 | 2.15 | 2.31 | 2.64 | 2.97 | 3.71 | 4.44 | 5.85 | \$7.26 | |
| 5 $\frac{1}{2}$ | 2.20 | 2.37 | 2.53 | 2.93 | 3.31 | 4.09 | 4.86 | 6.41 | 7.96 | |
| 6 | 2.42 | 2.59 | 2.75 | 3.18 | 3.60 | 4.44 | 5.28 | 6.97 | 8.67 | |
| 6 $\frac{1}{2}$ | 2.99 | 3.33 | 3.67 | 4.00 | 4.33 | 5.03 | 5.71 | 7.54 | 9.37 | \$11.20 |
| 7 | 3.15 | 3.50 | 3.84 | 4.24 | 4.62 | 5.38 | 6.13 | 8.10 | 10.08 | 12.05 |
| 7 $\frac{1}{2}$ | 3.39 | 3.78 | 4.18 | 4.58 | 4.97 | 5.76 | 6.56 | 8.67 | 10.78 | 12.89 |
| 8 | 3.54 | 3.95 | 4.36 | 4.82 | 5.28 | 6.13 | 6.97 | 9.23 | 11.48 | 13.73 |
| 8 $\frac{1}{2}$ | 3.78 | 4.18 | 4.65 | 5.13 | 5.60 | 6.50 | 7.39 | 9.79 | 12.19 | 14.58 |
| 9 | 3.94 | 4.40 | 4.87 | 5.40 | 5.92 | 6.88 | 7.82 | 10.35 | 12.89 | 15.42 |
| 9 $\frac{1}{2}$ | 4.18 | 4.69 | 5.19 | 5.72 | 6.24 | 7.24 | 8.24 | 10.91 | 13.60 | 16.27 |
| 10 | 4.33 | 4.86 | 5.39 | 5.97 | 6.56 | 7.61 | 8.67 | 11.48 | 14.30 | 17.12 |
| 10 $\frac{1}{2}$ | | | | | 6.86 | 7.98 | 9.09 | 12.05 | 15.00 | 17.55 |
| 11 | | | | | 7.18 | 8.35 | 9.50 | 12.61 | 15.71 | 18.80 |
| 11 $\frac{1}{2}$ | | | | | 7.50 | 8.72 | 9.93 | 13.17 | 16.41 | 19.65 |
| 12 | | | | | 7.82 | 9.09 | 10.35 | 13.73 | 17.12 | 20.49 |
| 12 $\frac{1}{2}$ | | | | | 8.14 | 9.46 | 10.78 | 14.30 | 17.82 | 21.34 |
| 13 | | | | | 8.45 | 9.82 | 11.20 | 14.85 | 18.52 | 22.18 |
| 13 $\frac{1}{2}$ | | | | | 8.77 | 10.20 | 11.62 | 15.40 | 19.23 | 23.02 |
| 14 | | | | | 9.09 | 10.57 | 12.05 | 15.98 | 19.93 | 23.87 |
| 15 | | | | | 9.72 | 11.31 | 12.89 | 17.12 | 21.34 | 25.56 |
| 16 | | | | | 10.35 | 12.05 | 13.73 | 18.24 | 22.75 | 27.25 |
| 17 | | | | | 10.99 | 12.78 | 14.58 | 19.36 | 24.16 | 28.94 |
| 18 | | | | | 11.62 | 13.52 | 15.42 | 20.49 | 25.56 | 30.62 |
| 19 | | | | | 12.25 | 14.27 | 16.27 | 21.62 | 26.97 | 32.32 |
| 20 | | | | | 12.89 | 15.00 | 17.12 | 22.75 | 28.38 | 34.00 |

JACKS

REES AUTOMOBILE



No. 0

Operated by a long folding handle connected to the jack with a Universal Joint, permitting it to be easily operated without crawling under the car. Equipped with Double Worm Gear Drive.

No. 0 — Capacity 1 Ton, Height 9 3/4 in., with Cap Raised 11 in., Total Lift 6 in., Weight Each 9 1/2 Lbs., Complete with Extension Handle \$5.50

No. 1C



No. 1C—Capacity 2 Tons, Height 10 in., with Cap Raised 11 1/4 in., Lift 6 in., Weight Each 13 Lbs., Complete with Extension Handle \$8.50

Also equipped with the long folding handle. Will cover the requirements of a passenger car. Provided with double worm gear drive.

REES TRUCK

No. 2A

With Foot Lift and Double Worm Gear Drive.



No. 2A—Capacity 4 Tons, Height 11 3/4 in., Lift 6 in., Weight Each 22 Lbs., Complete with Lever Bar Handle \$12.50

REES HEAVY DUTY TRUCK

No. 3A

With Foot Lift and Double Worm Gear Drive.

No. 3A—Capacity 6 Tons, Height 12 3/4 in., Lift 6 in., Weight 27 Lbs., Complete with Lever Bar Handle \$16.50



No. 3A.

REES GENERAL PURPOSE

No. 21A

An Extra Heavy Duty Jack for heavy truck service or general heavy duty use. Equipped with Foot Lift and Double Worm Gear Drive.

No. 21A — Capacity 10 Tons, Height 14 3/4 in., Lift 9 in., Weight Each 46 Lbs., Complete with Lever Bar Handle \$35.00

The most important feature of the Rees Line is the patented Double Worm Gear Drive. This relieves all thrust

or side load from the working parts and produces a perfectly balanced mechanism free from unnecessary friction and thrust.



JACKS

DUFF AUTOMOBILE



No. 08.

Meet all requirements as to lifting capacity and different axle heights of the majority of the passenger cars. Light and sturdy and afford absolute safety from danger of collapse or tip.

Capacity 1 Ton, 4x6 in. Base Each
No. 08—Height 11 3/4 in., Raise 6 3/4 in., Foot Adjustment from 4 1/2 to 11 1/2 in., Weight Each 11 1/2 Lbs., with Handle \$5.00
No. 09—Height 9 3/4 in., Raise 5 in., Foot Adjustment from 4 1/2 to 9 3/4 in., Weight Each 10 Lbs., with Handle 5.00

DUFF TRUCK



Present great strength and durability, powerfully compounded geared leverage and a Rack of high Carbon Steel, machine cut and heat treated.

No. 100—Capacity 3 Tons, Height 11 in., Raise 6 in., Weight 17 Lbs. \$10.00
No. 200—Capacity 5 Tons, Height 13 in., Raise 6 3/4 in., Weight 30 Lbs. \$20.00

Complete with Lever Handle.

DUFF BARRETT TRIP OR TRACK

Single Acting



Of the suspended pawl type, which eliminates the use of a separate tripping device, the end of the lower or short pawl serving as such. The suspended pawl design successfully overcomes the tendency, observed in other jacks of this type, of the pawl jumping out of its bearings. The base and socket lever are so reinforced at points of greatest strain, as to make the jack practically unbreakable. It is single-acting, i. e., load raised on down stroke only.

Trip jacks are intended for track work only, as they cannot be lowered gradually except by "fingering down."

No. 117—Capacity 15 Tons, Height 22 in., Raise 13 in., Weight Each 60 Lbs. \$22.00
List price shown covers round socket lever with wood handle.

Deduct \$1.00 from list price if square socket lever, for use with lining bar, is desired.

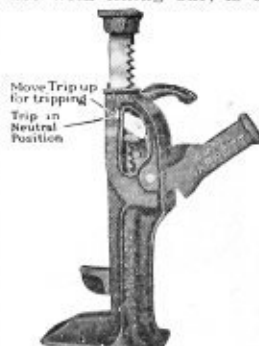
Double Acting

Recognized standard by the leading railroads of the world. Also used extensively by contractors where a trip is required.

Straight Trip Jacks cannot be lowered gradually like an automatic lowering jack.

The double-acting feature permits raising the load one notch on both upward and downward stroke.

List price covers round socket lever with wooden handle. Deduct \$1.00 from list if square socket lever, for use with lining bar is desired.



No. 1A—Capacity 15 Tons, Height 22 in., Raise 13 in., Weight 58 Lbs. \$22.00

JACKS

DUFF BARRETT AUTOMATIC LOWERING



Single-Acting

Load is raised or lowered by operation of handle on down-stroke only. More efficient in operation than the double-acting type and of greatly improved design.

Widely used by industrial concerns, public utility corporations, mines, contractors, truck men, etc.

Unexcelled in safety, low repair cost and easy and convenient operation.

Nos. 550 and 551 are furnished with round socket lever and 3 ft. steel operating bar.

Nos. 518 and 519 are furnished with round socket lever and wood handle.

| Nos. | Capacity, Tons | Height, In. | Raise, In. | Weight, Lbs. | Each |
|------|-------------------|----------------|---------------|-----------------|---------|
| 550 | 5 | 16 | 8 | 32 | \$16.00 |
| 551 | 5 | 21 | 13 | 40 | 18.00 |
| 518 | 10 | 22 | 12 | 70 | 25.00 |
| 519 | 15 | 28 | 17 | 96 | 40.00 |

Double-Acting



Raise the load one notch on both upward and downward stroke of lever. An eccentric at the side controls the reversing mechanism. A half turn of this eccentric changes the direction of the jack.

Used for rapid handling of mining machinery, mining cars, agricultural machinery, and general all-round service.

Furnished with round socket and wood handle.

| Nos. | Capacity, Tons | Height, In. | Raise, In. | Weight, Lbs. | Each |
|------|-------------------|----------------|---------------|-----------------|---------|
| 2 | 10 | 21 | 10 | 70 | \$25.00 |
| 4 | 15 | 22 | 10 | 106 | 35.00 |
| 50 | 5 | 16 | 8 | 35 | 16.00 |
| 51 | 5 | 21 | 13 | 42 | 18.00 |

DUFF STANDARD BALL BEARING SCREW



These Jacks are very useful for heavy work of any character, including bridge work, car repairing, and the handling of heavy structural material. Especially suitable for rough outdoor usage, all working parts being of sturdy design, packed in leakproof case. All of the sizes listed below have a foot lift for the convenient handling of low loads. The full rated capacity is lifted on the head, while the foot lift is rated at one-half the capacity. The direction up or down is controlled by a spring-actuated steel pin, located on the socket lever. Each jack is designed with carrying handles, one on each side of the jack, and is furnished with a steel tube operating bar.

| Nos. | Capacity, Tons | Height, In. | Raise, In. | Weight, Lbs. | Each |
|------|-------------------|----------------|---------------|-----------------|---------|
| 60 | 15 | 26 | 13 | 132 | \$70.00 |
| 67 | 25 | 22 | 10 | 170 | 90.00 |
| 61 | 25 | 27 | 13 | 200 | 96.00 |
| 68 | 35 | 22 | 10 | 220 | 130.00 |
| 62 | 35 | 26 | 13 | 250 | 138.00 |
| 64 | 50 | 27 | 13 | 320 | 150.00 |

JACKS

PEDERSEN OILJAK



Whether designed to lift ten tons or one, the Pedersen "Oiljak" requires less effort to raise its load than any jack known before.

It will lower its load more easily and safely and control it on the way up or down with absolute certainty.

It will do its work in cramped quarters where no other jack could be used at all.

For example, the full rated load can be raised with one hand. Merely pumping the handle up and down raises the load. No matter how little the handle is moved, the ram responds at once and you hold every fraction of an inch you gain.

The ten-ton Pedersen "Oiljak" will safely raise and lower ten-ton loads hour after hour, day in and day out. It is a real utility tool made to stay in perfect working order for many years under hard service conditions. Other sizes can similarly be depended upon to do their work with utmost reliability.

Lowering the load is even easier. A twist of the wrist and down moves the load as far or as slowly as desired—without shock, jar or the least danger of the load getting away.

Literally, Finger Control stops the load instantly at any point on the way down.

Made with the precision of a fine tool or machine, yet will stand up under rough handling and hard, constant work.



Oil is Used as the Pressure Medium and construction eliminates objections inherent in all former designs.

Some Special Features of the "Oiljak"

High carbon ground and polished steel ram carries the load. Adjustable oil retaining packing prevents leakage and keeps out foreign matter which might injure working parts of the jack.

Swivel head corrugated and hardened to insure firm grip under load.

Rigidly constructed rocker arm with a positive stop, oscillating on a heat-treated fulcrum bolt, projects over pump stem.

Pump stem is provided with adjustable packing preventing leakage of packing.

Jack is Self-Lowering, Single-Action

| | | |
|------------------------|---------|-------|
| Capacity, Tons | 3 | 10 |
| Height Lowered, Inches | 9 | 11 |
| Height Raised, Inches | 14 | 17 |
| Weight Each, Lbs. | 12 | 26 |
| Each | \$16.50 | 35.00 |

Complete with 18 in. Operating Lever.

We Can Also Furnish Other Types of Special Heavy Duty Screw Jacks in High Speed and Special Pushing Styles. Send Us Your Inquiries.



LOCOMOTIVE JACK SCREWS

Cast Iron Stand with Handle, Wrought Iron Screw, Cast Iron Head, Scored Top.

Capacity of Locomotive Jack Screws

| | | | | |
|-----------------|-------|-------|-------|----|
| Size, Inches... | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Tons | 10 | 12 | 16 | 20 |

| Size Inches | Hgt. of Stand Inches | Height Over All Inches | Rise of Screw Inches | Approx. Weight Lbs. | Each |
|-------------|----------------------|------------------------|----------------------|---------------------|--------|
| 1 1/4 x 6 | 6 | 8 1/2 | 4 1/4 | 10 | \$3.10 |
| 1 1/4 x 8 | 8 | 10 1/2 | 6 1/4 | 12 | 3.40 |
| 1 1/4 x 10 | 10 | 12 1/2 | 8 1/4 | 13 1/2 | 3.80 |
| 1 1/4 x 12 | 12 | 14 1/2 | 10 1/4 | 15 | 4.20 |
| 1 1/2 x 6 | 6 | 8 3/4 | 3 3/4 | 12 | 3.75 |
| 1 1/2 x 8 | 8 | 10 3/4 | 5 3/4 | 14 | 4.25 |
| 1 1/2 x 10 | 10 | 12 3/4 | 7 3/4 | 17 1/2 | 4.75 |
| 1 1/2 x 12 | 12 | 14 3/4 | 9 3/4 | 19 | 5.25 |
| 1 1/2 x 14 | 14 | 16 3/4 | 11 3/4 | 21 | 6.00 |
| 1 3/4 x 6 | 6 | 9 | 3 1/2 | 14 | 4.50 |
| 1 3/4 x 8 | 8 | 11 | 5 1/2 | 19 | 5.00 |
| 1 3/4 x 10 | 10 | 13 | 7 1/2 | 20 1/2 | 5.75 |
| 1 3/4 x 12 | 12 | 15 | 9 1/2 | 25 | 6.25 |
| 1 3/4 x 14 | 14 | 17 | 11 1/2 | 29 | 6.75 |
| 1 3/4 x 16 | 16 | 19 | 13 1/2 | 32 | 7.50 |
| 2 x 6 | 6 | 9 1/2 | 3 | 19 | 5.25 |
| 2 x 8 | 8 | 11 1/2 | 5 | 22 1/2 | 6.00 |
| 2 x 10 | 10 | 13 1/2 | 7 | 26 | 6.75 |
| 2 x 12 | 12 | 15 1/2 | 9 | 30 | 7.50 |
| 2 x 14 | 14 | 17 1/2 | 11 | 35 | 8.25 |
| 2 x 16 | 16 | 19 1/2 | 13 | 37 | 9.25 |
| 2 x 18 | 18 | 21 1/2 | 15 | 42 | 10.25 |
| 2 x 20 | 20 | 23 1/2 | 17 | 46 | 11.50 |

HOUSE RAISING SCREWS



For Pressing Cider, Wine, Tobacco, Lard, Cloth, etc. Also Used for House Raising. These Screws are made of refined Wrought Iron, with Cast Iron Nuts and Caps.

| Size Inches | Hgt. Over All, Inches | Capacity Each | Size Inches | Hgt. Over All, Inches | Capacity Each |
|-------------|-----------------------|---------------|-------------|-----------------------|---------------|
| 3x18 | 18 | \$17.00 | 3x36 | 36 | \$24.00 |
| 3x20 | 20 | 17.60 | 3x38 | 38 | 24.80 |
| 3x24 | 24 | 19.20 | 3x40 | 40 | 25.60 |
| 3x26 | 26 | 20.00 | 3x42 | 42 | 26.40 |
| 3x28 | 28 | 20.80 | 3x44 | 44 | 27.20 |
| 3x30 | 30 | 21.60 | 3x46 | 46 | 28.00 |
| 3x32 | 32 | 22.40 | 3x48 | 48 | 28.80 |
| 3x34 | 34 | 23.20 | | | |

TRENCH BRACE FITTINGS

DUFF ALL IRON, EXTENSIBLE



Ordinary Gas Pipe All That is Used for Barrel

Contractor need only cut own pipe to length required, and drill small hole at one end to insert a cotter pin, which holds brace together. (Price Per Dozen)

| | | | | | |
|------------------------|---------|-------|-------|-------|-------|
| Diameter Screw, Inches | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 2 |
| Length Screw, Inches | 12 | 14 | 16 | 18 | 18 |
| Safe Ext. Screw, In... | 7 | 8 | 9 | 10 | 10 |
| Weight Dozen, Lbs... | 185 | 192 | 204 | 208 | 440 |
| Complete | \$20.00 | 21.00 | 22.00 | 23.00 | 45.00 |
| Screw End Only | 15.00 | 16.00 | 17.00 | 18.00 | 33.00 |

TACKLE BLOCKS

REGULAR WOOD



Single.
With Becket
Without Becket



Double.
No. 26
No. 27
No. 22



Triple.
No. 28
No. 23

Plain Iron Bushed

Loose Side Hooks, with or without Beckets, Inside Iron Strapped, Varnished Hardwood Shell, for Manila Rope.

| Size Sheave, Inches | For Dia. Rope, Inches | Length Shell, Inches | Single, Each | Double, Each | Triple, Each |
|---------------------|-----------------------|----------------------|--------------|--------------|--------------|
| 1 3/4 x 1 1/2 x 3/8 | 3/8 | 3 | \$0.70 | \$1.30 | \$1.75 |
| 2 1/4 x 1 3/4 x 1/2 | 1/2 | 4 | .85 | 1.60 | 2.15 |
| 3 x 2 1/2 x 3/4 | 3/4 | 5 | .90 | 1.75 | 2.25 |
| 3 1/2 x 1 x 1/2 | 1/2 | 6 | 1.10 | 2.00 | 2.90 |
| 4 1/4 x 1 x 1/2 | 3/4 | 7 | 1.30 | 2.40 | 3.50 |
| 4 3/4 x 1 1/4 x 3/4 | 1 | 8 | 1.65 | 2.85 | 4.25 |
| 5 1/2 x 1 1/2 x 3/4 | 1 | 9 | 1.85 | 3.40 | 4.75 |
| 6 1/4 x 1 3/4 x 3/4 | 1 1/4 | 10 | 2.75 | 4.50 | 6.25 |
| 8 x 1 3/4 x 3/4 | 1 1/4 | 12 | 4.45 | 7.50 | 10.65 |
| 9 1/2 x 1 3/4 x 3/4 | 1 3/4 | 14 | 7.00 | 10.50 | 15.00 |

STANDARD STEEL



Single.
No. 261



Double.
No. 262



Triple.
No. 263

Plain Iron Bushed

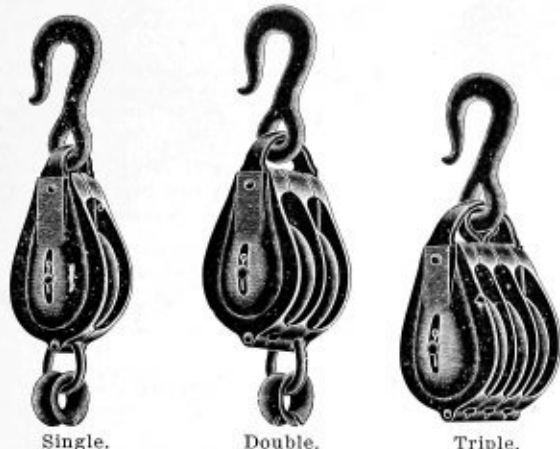
Loose Side Hooks, with or without Beckets (Specify), for Manila Rope.

| Size Sheave, Inches | For Dia. Rope, Inches | Length Shell, Inches | Single, Each | Double, Each | Triple, Each |
|---------------------|-----------------------|----------------------|--------------|--------------|--------------|
| 2 1/4 x 1 3/4 x 3/8 | 3/8 | 4 | \$0.85 | \$1.60 | \$2.15 |
| 3 x 2 1/2 x 1/2 | 1/2 | 5 | .90 | 1.75 | 2.25 |
| 3 1/2 x 1 x 1/2 | 3/4 | 6 | 1.10 | 2.00 | 2.90 |
| 4 1/4 x 1 x 1/2 | 3/4 | 7 | 1.30 | 2.40 | 3.50 |
| 4 3/4 x 1 1/4 x 3/4 | 1 | 8 | 1.65 | 2.85 | 4.25 |
| 6 1/4 x 1 3/4 x 3/4 | 1 1/4 | 10 | 2.75 | 4.50 | 6.25 |

Lighter than Wood Blocks and equally strong. There is no danger of shell splitting and they are more durable. Nicely rounded edges protect rope.

TACKLE BLOCKS

MALLEABLE



Single.

Double.

Triple.

Heavy, With or Without Becket, Loose Hooks. Edges of Plates Rounded to Protect the Rope.

Plain Bushed, for Manila Rope

| Dimensions. | | | Iron Bushed. | | |
|--------------------|--------------------|---------------------|--------------|--------------|--------------|
| Size, Shell Inches | Diam. Rope, Inches | Size Sheave, Inches | Single, Each | Double, Each | Triple, Each |
| 4 | 1/2 | 2 1/4 x 5/8 x 3/8 | \$0.90 | \$1.75 | \$2.50 |
| 5 | 5/8 | 3 x 3/4 x 3/8 | 1.00 | 1.90 | 2.75 |
| 6 | 3/4 | 3 1/2 x 1 x 1/4 | 1.25 | 2.25 | 3.25 |
| 7 | 7/8 | 4 1/4 x 1 1/2 | 1.50 | 2.70 | 4.00 |
| 8 | 1 | 4 3/4 x 1 1/2 x 5/8 | 1.85 | 3.20 | 4.75 |
| 10 | 1 1/4 | 6 1/4 x 1 1/2 x 3/4 | 3.10 | 5.10 | 7.00 |
| 12 | 1 1/2 | 8 x 1 5/8 x 7/8 | 5.00 | 8.25 | 11.75 |
| 14 | 1 3/4 | 9 1/2 x 1 7/8 x 7/8 | 7.50 | 11.75 | 16.50 |

SNATCH BLOCKS

WOOD SHELL

No. 385—Drop Link, Iron Bushed

Drop Forged Flattened Swivel Hook and Head, Straps Extend to Bottom of Shell. Edges of Shell Rounded.



No. 385.

| | | | |
|-----------------------|---------------|---------------|---------------|
| Length Shell, Inches. | 6 | 8 | 10 |
| Size Sheave, Inches. | 3x1 1/2 | 4 1/2 x 1 3/8 | 5 3/4 x 1 3/8 |
| Hole in Sheave, In. | 1/2 | 5/8 | 3/4 |
| For Rope Diam., In. | 7/8 | 1 | 1 1/4 |
| Each | \$4.00 | 5.75 | 8.50 |
| Length Shell, Inches. | 12 | 14 | |
| Size Sheave, Inches. | 6 3/4 x 2 1/8 | 8x2 1/4 | |
| Hole in Sheave, In. | 3/4 | 7/8 | |
| For Rope Diam., In. | 1 1/2 | 1 3/4 | |
| Each | \$10.00 | 13.00 | |

CLEVELAND MALLEABLE

Patent Automatic, for Manila Rope

Simple in Construction and Very Efficient.

Plain, Iron Bushed

| | | | |
|----------------------|---------------|---------|---------------|
| Nos. | 200 | 202 | 204 |
| Length Shell, In. | 7 | 8 | 10 |
| Size Sheave, Inches. | 3 1/2 x 1 1/4 | 4x1 1/2 | 5 1/2 x 1 3/8 |
| Diam. Rope, Inches | 7/8 | 1 1/8 | 1 3/8 |
| Each | \$4.75 | 5.75 | 8.50 |

| | | | |
|----------------------|---------|---------|---------|
| Nos. | 206 | 208 | 210 |
| Length Shell, In. | 12 | 14 | 16 |
| Size Sheave, Inches. | 7x2 | 8x2 1/4 | 9x2 1/2 |
| Diam. Rope, Inches | 1 1/8 | 1 3/8 | 2 1/4 |
| Each | \$10.00 | 13.00 | 17.00 |



GALVANIZED IRON BLOCKS

SINGLE, WITH BECKETS



Galvanized Wrought Iron Hooks, Malleable Iron Shells

No. 352—Plain Iron Bushed, Loose Hooks.

| | | | | |
|---------------------------|--------|-------|-------|-------|
| Size Nos. | 1 1/2 | 5 1/2 | 7 1/2 | 9 1/2 |
| Length Shell, Inches. | 1 3/8 | 2 | 2 1/4 | 2 3/4 |
| Diameter Rope, Inches. | 3/8 | 1 | 1 1/8 | 1 3/8 |
| Diameter Sheave, Inches. | 1 1/8 | 1 3/8 | 1 1/2 | 1 3/4 |
| Thickness Sheave, Inches. | 1/8 | 1/8 | 1/2 | 1/2 |
| Each | \$0.19 | .25 | .31 | .43 |

| | | | |
|---------------------------|--------|--------|--------|
| Size Nos. | 11 1/2 | 13 1/2 | 15 1/2 |
| Length Shell, Inches. | 3 | 3 3/4 | 4 3/4 |
| Diameter Rope, Inches. | 1 1/2 | 1 3/8 | 1 3/4 |
| Diameter Sheave, Inches. | 2 | 2 1/2 | 3 |
| Thickness Sheave, Inches. | 5/8 | 3/4 | 7/8 |
| Each | \$0.48 | .75 | 1.10 |

DOUBLE, WITHOUT BECKETS



Galvanized Wrought Iron Hooks, Malleable Iron Shells

No. 351—Plain Iron Bushed, Loose Hooks.

| | | | | |
|---------------------------|--------|-------|-------|-------|
| Size Nos. | 2 | 4 | 6 | 8 |
| Length Shell, Inches. | 1 3/8 | 1 3/4 | 2 | 2 1/4 |
| Diameter Rope, Inches. | 3/8 | 1/2 | 5/8 | 3/4 |
| Diameter Sheave, Inches. | 3/4 | 1 | 1 1/8 | 1 1/2 |
| Thickness Sheave, Inches. | 1/8 | 1/8 | 3/8 | 1/2 |
| Each | \$0.23 | .27 | .32 | .38 |

| | | | | |
|---------------------------|--------|-------|-------|-------|
| Size Nos. | 10 | 12 | 14 | 16 |
| Length Shell, Inches. | 3 | 3 1/4 | 4 | 5 |
| Diameter Rope, Inches. | 1 1/8 | 1 1/2 | 1 3/8 | 1 3/4 |
| Diameter Sheave, Inches. | 1 3/4 | 2 | 2 1/2 | 3 |
| Thickness Sheave, Inches. | 1/2 | 5/8 | 3/4 | 7/8 |
| Each | \$0.50 | .60 | .95 | 1.35 |

HOOKS AND THIMBLES



No. 227—Wrought Iron, Galvanized

| | | | | | | | | |
|--------------------|--------|-------|-------|-------|-------|-------|-------|-----|
| Size, Inches | 1/4 | 5/8 | 3/4 | 1 | 1 1/2 | 5/8 | 3/4 | 7/8 |
| Length, Inches | 2 1/8 | 2 3/8 | 3 1/8 | 3 1/2 | 5 1/4 | 5 3/8 | 6 1/2 | |
| Ins. Dia. Eye, In. | 1/8 | 3/8 | 1/2 | 5/8 | 1 1/4 | 1 1/8 | 1 3/8 | |
| Est. Wt. 100, Lbs. | 7 | 11 | 16 | 23 | 34 | 81 | 114 | 208 |
| Each | \$0.12 | .13 | .14 | .16 | .17 | .21 | .29 | .37 |

CHAIN HOISTS

YALE DIFFERENTIAL BLOCK

The Original Weston's Patent

In the Genuine Yale & Towne Blocks the name of the Company is cast on both the top and bottom sheaves. Look for it.

Have large sheaves and full sized chain of special material gauged by a patented process which hardens the chain and makes it gear accurately with properly formed sprockets. This precludes the stretching of the chain which, in imitations, quickly destroys their usefulness and safety.

These blocks handle heavy loads readily and are sold at the lowest prices possible for reliable blocks.

In this type the power is applied by pulling directly on slack part of load chain and the power is multiplied by a differential sheave.

Where labor is unimportant and low first cost of the block the chief requirement this is the pattern.

Capacity is figured in tons of 2,240 pounds.



| Cap. in Tons.. | $\frac{1}{4}$ | $\frac{1}{2}$ | 1 | $1\frac{1}{2}$ | 2 | 3 |
|-----------------|---------------|---------------|-------|----------------|-------|----------------|
| Hoist in Feet.. | 6 | 7 | 8 | $8\frac{1}{2}$ | 9 | $9\frac{1}{2}$ |
| Wt. Block, Lbs. | 23 | 30 | 50 | 81 | 121 | 179 |
| †Chain Pull, | | | | | | |
| Lbs. | 72 | 122 | 216 | 246 | 308 | 557 |
| †Chain Pull, | | | | | | |
| Feet | 18 | 24 | 30 | 36 | 42 | 38 |
| Complete | \$35.00 | 42.00 | 56.00 | 72.00 | 90.00 | 120.00 |
| Extra Hoist .. | 4.80 | 4.80 | 5.00 | 5.40 | 5.60 | 6.00 |

*Figures denote pull in pounds required to lift the full load and the number of feet of chain handled to lift the load one foot.

ROPE HOISTS

BURR SELF-LOCKING

The Burr Self-Locking Tackle Block is a safe, dependable device for any lifting, stretching or pulling job to be done.

Rugged construction, compact and light in weight.

A positive locking device automatically grips the carrying rope the instant tension is released on the pulling rope. The heavier the load the tighter it locks, with absolutely no injury to the rope.



Nos. 3, 4, 5 and 6.

| Nos. | 3 | 4 | 5 | 6 |
|--------------------|----------------|----------------|----------------|----------------|
| Capacity, Lbs. | 800 | 1500 | 2000 | 2500 |
| Size Rope, Inches. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Weight, Lbs. | $4\frac{1}{2}$ | $6\frac{1}{2}$ | 11 | 17 |
| Each | \$3.00 | 5.50 | 7.00 | 8.50 |
| Nos. | | $4\frac{1}{2}$ | $5\frac{1}{2}$ | $6\frac{1}{2}$ |
| Capacity, Lbs. | | 3000 | 3500 | 5000 |
| Size Rope, Inches. | | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Weight, Lbs. | | 10 | 20 | 28 |
| Each | | \$10.00 | 12.00 | 14.00 |

Prices Include Lower Block.



Nos. $4\frac{1}{2}$, $5\frac{1}{2}$, $6\frac{1}{2}$.

CHAIN HOISTS

YALE SPURRED GEAR BLOCK

The highest development of the hand hoist principle. They are the safest and speediest hand hoists made. Wear longer, lift easier and quicker, and are safer than other blocks.

Load is held securely at all times and is lowered by reversing the pull on the hand chain.

Steel suspension parts carry the load. Parts are few and of generous proportions. All bearings are large and thoroughly lubricated.

Steel safety hoop and cross head are both designed to swivel and rock.

Die formed and electrically welded steel load chain with smoothly finished links.

These blocks are rated on the long ton basis 2240 pounds to the ton. Each block is tested to a 50% overload before leaving factory but should not be used to lift overloads.



| Cap. Tons | Lift. Ft. | Weight, Lbs. | Chain Pull, †Lbs. | Chain Pull, †Ft. | Complete | Extra Hoist |
|----------------|-----------|--------------|-------------------|------------------|----------|-------------|
| $\frac{1}{2}$ | 8 | 58 | 62 | 21 | \$70.00 | 1.80 |
| 1 | 8 | 92 | 82 | 31 | 90.00 | 1.90 |
| $1\frac{1}{2}$ | 8 | 132 | 110 | 35 | 120.00 | 2.00 |
| 2 | 9 | 202 | 120 | 42 | 140.00 | 2.10 |
| 3 | 10 | 209 | 114 | 70 | 180.00 | 3.00 |
| 4 | 10 | 299 | 124 | 84 | 220.00 | 3.20 |
| 5 | 12 | 411 | 110 | 126 | 280.00 | 4.30 |
| 6 | 12 | 411 | 130 | 126 | 330.00 | 4.30 |
| 8 | 12 | 500 | 135 | 168 | 400.00 | 5.40 |
| 10 | 12 | 610 | 140 | 210 | 480.00 | 6.50 |
| 12 | 12 | 855 | 130 | *126 | 600.00 | 8.60 |
| 16 | 12 | 1041 | 135 | *168 | 720.00 | 10.80 |
| 20 | 12 | 1350 | 140 | *210 | 850.00 | 13.00 |

*For Each Hand.

†Figures denote pull in pounds required to lift full load and the number of feet of chain handled to lift the load one foot.

TROLLEYS

PLAIN STEEL

For Use with Chain Blocks

These Trolleys are built with steel suspension members and have the highest degree of safety and ease of operation. The bronze self-oiling or roller bearings are self-aligning. The "equalizing pin" construction allows trolley to be assembled at any point on the I-beam track or crane. Trolleys are regularly

furnished with adjusting washers to fit on I-beam two sizes larger than standard to 8 ton capacity.



Roller Bearing

| Cap. in Tons | Diam. of Tread of Wheel, In. | Standard Size of I-Beam, In. | Greatest Distance Between Supports, Ft. | Weight Trolley, Lbs. | Each |
|----------------|------------------------------|------------------------------|---|----------------------|---------|
| $\frac{1}{2}$ | $3\frac{3}{4}$ | 5 | 13 | 30 | \$25.00 |
| 1 | $4\frac{3}{4}$ | 6 | 14 | 50 | 29.00 |
| $1\frac{1}{2}$ | $5\frac{1}{2}$ | 7 | 14 | 95 | 39.00 |
| 2 | $6\frac{1}{2}$ | 8 | 15 | 115 | 46.00 |

Can be adjusted to fit I-Beams three sizes larger than Standard.

WELL WHEELS



Japanned Iron Frame and Wheel, Wrought Iron Hook

No. 1—Regular

| | | |
|-----------------|--------|------|
| Dia. Wheel, In. | 10 | 12 |
| Wt. Each, Lbs. | 5 | 6 |
| Each | \$1.90 | 2.30 |

No. 5—Extra Heavy

| | |
|---------------------|--------|
| Diameter Wheel, In. | 14 |
| Weight Each, Lbs. | 11 |
| Each | \$4.00 |

Open Stock.

HAY FORK PULLEYS



Wrought Steel Frame, Malleable Swivel Eye

Interchangeable Cast Iron Sheave.

| | |
|-------------------------|--------|
| No. | 16 |
| Diameter Sheave, Inches | 5 |
| Weight Each, Lbs. | 3 |
| Per Dozen | \$9.00 |

IRON SHEAVES

For Manila Rope



For Regular Blocks

Common Iron Bushed

| Size Sheave, In. | For Block, Inches | Each |
|---------------------|-------------------|--------|
| 1 1/4 x 1 1/2 x 3/4 | 3 | \$0.09 |
| 2 x 1 1/2 x 3/4 | 3 1/2 | .10 |
| 2 1/4 x 3/4 x 3/4 | 4 | .12 |
| 2 3/4 x 3/4 x 3/4 | 4 1/2 | .15 |
| 3 x 3/4 x 3/4 | 5 | .20 |
| 3 1/2 x 1 x 1 1/2 | 6 | .25 |
| 4 1/4 x 1 x 1 1/2 | 7 | .30 |
| 4 3/4 x 1 1/4 x 3/4 | 8 | .35 |
| 4 3/4 x 1 3/4 x 3/4 | Thick Mortise, 8 | .40 |
| 5 1/2 x 1 1/4 x 3/4 | Thick Mortise, 9 | .45 |
| 5 3/4 x 1 3/4 x 3/4 | Thick Mortise, 9 | .50 |
| 6 1/4 x 1 1/4 x 3/4 | Thick Mortise, 10 | .55 |
| 6 1/4 x 1 1/2 x 3/4 | Thick Mortise, 10 | .65 |
| 7 1/4 x 1 1/4 x 3/4 | Thick Mortise, 11 | .70 |
| 7 x 1 1/2 x 3/4 | Thick Mortise, 11 | .85 |
| 8 x 1 3/4 x 3/4 | Thick Mortise, 12 | .90 |
| 8 x 1 3/4 x 3/4 | Thick Mortise, 12 | 1.05 |
| 9 x 1 1/2 x 3/4 | Thick Mortise, 13 | 1.20 |
| 9 x 1 3/4 x 3/4 | Thick Mortise, 13 | 1.35 |
| 9 1/2 x 1 3/4 x 3/4 | Thick Mortise, 14 | 1.40 |
| 9 1/2 x 1 3/4 x 3/4 | Thick Mortise, 14 | 1.50 |
| 10 x 1 3/4 x 3/4 | Thick Mortise, 15 | 1.50 |
| 10 x 1 3/4 x 3/4 | Thick Mortise, 15 | 1.70 |
| 11 x 1 3/4 x 3/4 | Thick Mortise, 16 | 1.70 |
| 11 x 2 1/4 x 1 | Thick Mortise, 16 | 2.00 |

MANILA ROPE



Made of Extra Strong and Tough Pure Manila Fibre.

We guarantee every coil of Manila rope to be absolutely pure and unmixed with inferior fibre of any kind. It is also free from weighing substances, and will be found, upon actual test of strength, size, weight and wearing qualities to be the most economical rope on the market.

Price Differentials

| Diameter | Per Pound |
|--------------------|------------------------|
| 3/4 in. and Larger | Base, \$.... |
| 3/8 in. | Advance Over Base, .01 |
| 1/2 in. | Advance Over Base, .02 |
| 5/8 in. | Advance Over Base, .03 |
| 3/4 in. | Advance Over Base, .04 |
| 7/8 in. | Advance Over Base, .05 |

Three Strand

In 600 and 1200 Foot Coils. Per Pound

| | |
|---|-----------|
| Diameter—1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4 | Per Pound |
| 1 1/4, 1 1/2, 1 3/4, 2 in. | 8.... |

Weight and Strength of Pure Manila Rope

| Diameter, Inches | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| Circumference, Inches | 3 1/4 | 4 1/4 | 5 1/4 | 6 1/4 | 7 1/4 | 8 1/4 | 9 1/4 | 10 1/4 |
| No. Feet Per Lb. | 43 | 33 | 21 | 17 | 13 | 10 | 8 | 6 |
| Str'gh New Rope, Lbs. | 450 | 750 | 900 | 1250 | 1700 | 2250 | | |

| Diameter, Inches | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Circumference, Inches | 2 1/4 | 2 3/4 | 3 1/4 | 3 3/4 | 4 1/4 | 4 3/4 |
| No. Feet Per Lb. | 7 1/2 | 6 | 4 | 3 1/4 | 2 3/4 | 2 1/2 |
| Str'gh New Rope, Lbs. | 3000 | 3900 | 5600 | 6700 | 9150 | 10600 |

| Diameter, Inches | 1 3/8 | 1 1/2 | 1 5/8 | 1 3/4 | 2 |
|-----------------------|--------|--------|--------|-------|-------|
| Circumference, Inches | 4 1/4 | 4 3/4 | 5 1/4 | 5 3/4 | 6 |
| No. Feet Per Lb. | 17 1/2 | 15 1/2 | 11 1/2 | 10 | 8 |
| Str'gh New Rope, Lbs. | 13450 | 15150 | 18700 | 22600 | 26900 |

WIRE ROPE CLIPS

STANDARD



| Size Rope, In. | 1/4 | 3/8 | 1/2 |
|----------------|--------|---------|---------|
| Wt. 100, Lbs. | 11 | 12 1/2 | 25 |
| Each | \$0.06 | .06 1/2 | .08 1/2 |

| Size Rope, In. | 5/8 | 3/4 | 7/8 |
|----------------|------------|---------|-----|
| Wt. 100, Lbs. | 32 | 37 1/2 | 58 |
| Each | \$0.09 1/2 | .11 1/2 | .17 |

| Size Rope, In. | 1 | 1 1/4 | 1 1/2 |
|----------------|------------|---------|-------|
| Wt. 100, Lbs. | 100 | 149 | 182 |
| Each | \$0.26 1/2 | .33 1/2 | .39 |

WIRE ROPE THIMBLES

Standard, Galvanized Steel



| Diameter Rope, In. | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
|----------------------|--------|-----|-----|-----|-----|
| Weight Per 100, Lbs. | 1.8 | 2.2 | 4.2 | | |
| Each | \$0.05 | .06 | .07 | | |

| Diameter Rope, In. | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 |
|----------------------|--------|-----|-----|---|-------|
| Weight Per 100, Lbs. | 6.5 | 9 | 11 | | |
| Each | \$0.08 | .09 | .10 | | |

| Diameter Rope, In. | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 |
|----------------------|--------|-----|-----|---|-------|
| Weight Per 100, Lbs. | 16 | 25 | 38 | | |
| Each | \$0.11 | .13 | .14 | | |

| Diam. Rope, In. | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 1 1/2 |
|-------------------|--------|-------|-------|-------|-------|
| Wt. Per 100, Lbs. | 62 | 94 | 118 | 154 | 208 |
| Each | \$0.18 | .28 | .33 | .42 | .50 |

TURNBUCKLES

WITH STUBS



No. 25—Complete with Right and Left Bolt Ends

Drop Forged, Hexagonal.

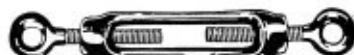
| Diam. Stub Ends Inches | Outside Length Buckle, Inches | Length Stub Ends, Inches | Total Length, Inches | Each |
|------------------------|-------------------------------|--------------------------|----------------------|--------|
| $\frac{3}{8}$ | 7 $\frac{1}{2}$ | 8 | 22 | \$0.45 |
| $\frac{1}{2}$ | 7 $\frac{1}{2}$ | 8 | 22 | .50 |
| $\frac{5}{8}$ | 7 $\frac{1}{2}$ | 8 | 22 | .60 |
| $\frac{3}{4}$ | 8 $\frac{1}{4}$ | 8 $\frac{1}{2}$ | 23 | .75 |
| $\frac{7}{8}$ | 8 $\frac{5}{8}$ | 9 | 24 | .90 |
| 1 | 9 | 9 $\frac{1}{2}$ | 25 | 1.10 |
| 1 $\frac{1}{8}$ | 9 $\frac{3}{8}$ | 9 $\frac{1}{2}$ | 25 | 1.40 |
| 1 $\frac{1}{4}$ | 9 $\frac{3}{8}$ | 10 | 26 | 1.70 |
| 1 $\frac{3}{8}$ | 10 $\frac{1}{4}$ | 10 $\frac{1}{2}$ | 27 | 2.10 |
| 1 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 27 | 2.50 |
| 1 $\frac{5}{8}$ | 10 $\frac{3}{4}$ | 11 | 28 | 3.25 |
| 1 $\frac{3}{4}$ | 11 $\frac{1}{4}$ | 11 | 28 | 4.00 |

SMALL TURNBUCKLES



Malleable Iron, with Wrought Hook and Swivel Eye

| | | | |
|--------------------------------|---------------|----------------|---------------|
| Diameter of Screw, Inches..... | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ |
| Galvanized | \$0.60 | .65 | .85 |
| Plain | .50 | .55 | .70 |



Cast Brass, with Solid Eyes

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Size Screw, Inches..... | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | 1 $\frac{1}{8}$ |
| Movement, Inches..... | $\frac{3}{4}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 $\frac{1}{4}$ | 2 $\frac{3}{4}$ |
| Total Length, Inches.. | 2 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 4 | 4 $\frac{3}{4}$ | 5 $\frac{1}{2}$ | 6 $\frac{1}{4}$ |
| Per Dozen | \$2.20 | 2.70 | 3.20 | 4.80 | 6.00 | 8.50 |



Steel with Wire Screws

| Nos. | 101 | 201 | 301 | 401 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|
| Size Screw, Inches..... | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Movement, Inches..... | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 $\frac{1}{4}$ |
| Length Over All, Inches.. | 3 | 4 | 4 $\frac{1}{2}$ | 5 $\frac{1}{2}$ |
| Per Dozen | \$1.75 | 2.00 | 2.25 | 2.50 |

Galvanized

| Nos. | 110 | 220 | 330 | 440 |
|-----------------|--------|------|------|------|
| Per Dozen | \$2.15 | 2.40 | 2.65 | 3.10 |



Steel with Steel Screws

| Nos. | 601—Plain, $\frac{1}{2}$ in. Screw, 2 $\frac{1}{2}$ in. Movement, Length Over All 5 $\frac{1}{4}$ in..... | Per Dozen |
|---|---|-----------|
| | | \$5.00 |
| No. 660—Galvanized, Otherwise Same as No. 601.. | | 6.00 |
| No. 701—Plain, $\frac{3}{4}$ in. Screw, 3 $\frac{1}{2}$ in. Movement, Length Over All 6 $\frac{1}{4}$ in..... | | 6.00 |
| No. 770—Galvanized, Otherwise Same as No. 701.. | | 7.00 |
| All Above, Open Stock. | | |

CHAIN LAP LINKS

KEYSTONE PATTERN



No. 2530—Malleable Iron, Polished

| Nos. | A | B | C | D |
|-------------------------|-----------------|-----------------|-----------------|-----------------|
| For Chain, Inches..... | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Eye, Inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Inside Length, Inches.. | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 $\frac{1}{8}$ |
| Per Dozen | \$0.56 | .72 | .96 | 1.52 |

| Nos. | F | G | H | K |
|-------------------------|-----------------|-----------------|---------------|-----------------|
| For Chain, Inches..... | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Eye, Inches | $\frac{3}{4}$ | 1 | $\frac{1}{2}$ | 1 $\frac{1}{8}$ |
| Inside Length, Inches.. | 2 $\frac{1}{8}$ | 2 $\frac{3}{8}$ | 3 | 3 $\frac{1}{2}$ |
| Per Dozen | \$2.00 | 2.80 | 3.60 | 5.00 |

CONNECTING LINKS

KEYSTONE



Composed of two similar halves centrally pivoted on same axis. On the inner face of each end they have a lug and a recess which, when closed together, interlock and prevent lateral displacement.



Drop Forged from Bar Steel

Forge Finish.

| | | | | |
|------------------------------|-----------------|-----------------|-----------------|-----------------|
| Diam. Steel, Inches..... | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Length Over All, Inches..... | 1 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | 3 $\frac{1}{4}$ |
| Width Over All, Inches..... | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{3}{8}$ |
| Weight Dozen, Lbs..... | 1 | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 5 |
| Per Dozen | \$2.00 | 2.25 | 2.50 | 4.00 |

REPAIR LINKS

END OPEN



No. 150—Wrought Iron Bright Finish

| | | | | | | |
|----------------|-----------------|-----------------|-----------------|---------------|-----------------|-----------------|
| Thickness, In. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 1 $\frac{1}{2}$ |
| Length, In.... | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 2 | 2 $\frac{1}{2}$ | 3 |
| Per Gross.... | \$10.40 | 11.90 | 12.60 | 13.20 | 17.60 | 24.40 |

CHAIN SWIVELS



Malleable Iron, Plain

| | | |
|----------------------|--------|-----------------|
| Nos. | 1 | 2 |
| Length, Inches | 2 | 2 $\frac{1}{2}$ |
| Per Dozen | \$0.60 | .80 |

All Above, Open Stock.

CHAIN HOOKS

SLIP



Shaped to permit the Chain to slip easily through the loop.

No. 1—Drop Forged, Self-Colored

| | | | | | |
|------------------------|----------------|----------------|----------------|----------------|----------------|
| Size Chain, Inches.. | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ |
| Size Material, Inches. | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | 1 | $1\frac{1}{4}$ |
| Weight Each, Lbs... | .6 | 1.2 | 1.6 | 2.1 | 4 |
| Per 100 | \$9.70 | 12.50 | 17.60 | 23.00 | 31.30 |

| | | | | |
|----------------------------|----------------|---------------|----------------|--------|
| Size Chain, Inches..... | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Size Material, Inches..... | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ | 3 |
| Weight Each, Lbs..... | 7.5 | 15 | 30 | 75 |
| Per 100 | \$59.00 | 90.00 | 315.00 | 435.00 |

GRAB

So shaped that when hooked over a link of the chain they will not slip.



No. 2—Drop Forged, Self-Colored

| | | | | | |
|------------------------|---------------|----------------|---------------|----------------|---------------|
| Size Chain, Inches.. | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ |
| Size Material, Inches. | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Weight Each, Lbs... | 4 | 7.5 | 12.5 | 2 | 2.9 |
| Per 100 | \$9.70 | 12.50 | 17.60 | 23.00 | 31.30 |

| | | | | |
|----------------------------|----------------|----------------|----------------|--------|
| Size Chain, Inches..... | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Size Material, Inches..... | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | 2 |
| Weight Each, Lbs..... | 5 | 9 | 20 | 50 |
| Per 100 | \$59.00 | 90.00 | 315.00 | 435.00 |

COIL OR CABLE CHAIN



Common or Proof Test, Straight Links, Self-Colored

| | | | | | |
|---------------------|------------------|---------------|-------------------|-----------------|-------------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ |
| Links Per Foot.... | 12 $\frac{1}{2}$ | 12 | 10 $\frac{3}{4}$ | 9 $\frac{3}{4}$ | 8 $\frac{3}{4}$ |
| Proof Test, Lbs... | 1045 | 1800 | 2720 | 3720 | 5000 |
| Break. Test, Lbs... | 2090 | 3600 | 5440 | 7440 | 10000 |
| Safe Working Load. | 520 | 900 | 1360 | 1860 | 2500 |
| Wt. 100 Feet, Lbs. | 40 | 70 | 105 | 158 | 210 |
| Per Pound | \$0.20 | .18 | .15 $\frac{1}{2}$ | .13 | .12 $\frac{1}{2}$ |

| | | | | | |
|---------------------|---------------|-------------------|-----------------|-------------------|-----------------|
| Size, Inches | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Links Per Foot.... | 8 | 6 $\frac{3}{4}$ | 5 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | 4 $\frac{3}{4}$ |
| Proof Test, Lbs... | 6600 | 10000 | 14150 | 19200 | 24800 |
| Break. Test, Lbs... | 13200 | 20000 | 28300 | 38400 | 49600 |
| Safe Working Load. | 3300 | 5000 | 7075 | 9600 | 12400 |
| Wt. 100 Feet, Lbs. | 275 | 410 | 580 | 780 | 1000 |
| Per Pound | \$0.12 | .13 $\frac{1}{2}$ | .13 | .12 $\frac{1}{2}$ | .12 |

Common or Proof Test, Straight Links, Galvanized

| | | |
|--------------------|---------------|---------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ |
| Per Pound | \$0.27 | .24 |



Proof Grade, Twist Links, Self-Colored

| | | | | | | |
|---------------------|----------------------|-------------------|----------------|-------------------|-----------------|-------------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ |
| Links Per Foot.... | 12 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 10 | 9 $\frac{1}{2}$ | 7 $\frac{1}{2}$ | 7 $\frac{1}{4}$ |
| Inside Length, In.. | $\frac{3}{4}$ | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | $1\frac{1}{2}$ |
| Inside Width, In.. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{1}{2}$ |
| Wt. 100 Ft., Lbs.. | 44 | 75 | 124 | 180 | 225 | 285 |
| Per Pound | \$0.21 $\frac{1}{2}$ | .19 $\frac{1}{2}$ | .17 | .14 $\frac{1}{2}$ | .14 | .13 $\frac{1}{2}$ |

Not proof tested as this would deform the links. Twisting is considered sufficient test.

MACHINE CHAIN



Bright Finish, Twist Links

| | | | | | |
|------------------------|----------------|----------------|---------------|---------------|---------------|
| Nos. | 6-0 | 5-0 | 4-0 | 3-0 | 2-0 |
| Size, Inches | $\frac{3}{32}$ | $\frac{7}{64}$ | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ |
| Links Per Foot.... | 14 | 14 | 14 | 14 | 15 |
| Tensile Strength, Lbs. | 3420 | 2660 | 1990 | 1760 | 1510 |
| Wt. 100 Feet, Lbs... | 73 | 57 | 40 | 34 | 30 |
| Per 100 Feet..... | \$25.00 | 22.50 | 15.00 | 13.50 | 13.00 |

| | | | | | |
|------------------------|---------------|----------------|---------------|---------------|---------------|
| Nos. | 0 | 1 | 2 | 3 | 4 |
| Size, Inches | $\frac{1}{2}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Links Per Foot.... | 16 | 16 | 17 | 18 | 18 |
| Tensile Strength, Lbs. | 1310 | 1140 | 1000 | 875 | 750 |
| Wt. 100 Feet, Lbs... | 27 | 22 | 18 | 16 | 15 |
| Per 100 Feet..... | \$12.50 | 12.00 | 12.00 | 12.00 | 12.00 |

100 Foot Lengths.

COIL CHAIN

LIBERTY PATTERN



No. 000.

No. 0



No. 2.

Twist Link, Bright Finish

| | | | | | | |
|------------------------|---------------|---------------|---------------|---------------|---------------|------------------|
| Nos. | 000 | 00 | 0 | 1 | 2 | 3 |
| Size, Inches | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Links Per Foot.... | 9 | 9 | 9 | 10 | 10 | 10 $\frac{1}{2}$ |
| Tensile Strength, Lbs. | 1760 | 1430 | 1290 | 1080 | 950 | 830 |
| Wt. 100 Feet, Lbs... | 32 | 28 | 25 | 22 | 18 | 13 |
| Per 100 Feet..... | \$9.00 | 8.50 | 8.00 | 7.50 | 7.00 | 7.00 |

100 Foot Lengths.



Straight Links, Bright Finish

| | | | | | | |
|------------------------|------------------|------------------|------------------|---------------|------------------|------------------|
| Nos. | 000 | 00 | 0 | 1 | 2 | 3 |
| Size, Inches | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Links Per Foot.... | 14 $\frac{1}{2}$ | 15 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 19 | 19 $\frac{1}{2}$ | 19 $\frac{3}{4}$ |
| Tensile Strength, Lbs. | 1760 | 1510 | 1310 | 1140 | 1000 | 875 |
| Wt. 100 Feet, Lbs... | 37 | 32 | 28 | 23 | 20 | 16 |
| Per 100 Feet..... | \$9.00 | 8.50 | 8.00 | 7.50 | 7.00 | 7.00 |

100 Foot Lengths.

AMERICAN



No. 1.

Flat Steel, Bright Finish

| | | | |
|---------------------------|-----------------|-----------------|------------------|
| Nos. | 1 | 3 | 5 |
| Tensile Strength, Lbs.... | 960 | 650 | 510 |
| Weight Per 100 Feet, Lbs. | 10 | 8 | 6 |
| Per 100 Feet | \$7.50 | 5.50 | 4.75 |
| Nos. | 7 | 8 | 113 |
| Tensile Strength, Lbs.... | 395 | 320 | 1060 |
| Weight Per 100 Feet, Lbs. | 3 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 12 $\frac{1}{2}$ |
| Per 100 Feet..... | \$3.75 | 3.50 | 8.00 |

10 Foot Lengths.

COIL CHAIN

TRIUMPH



No. 00.

Plain, Weldless Steel Wire

| Nos. | 5-0 | 4-0 | 3-0 | 2-0 | 0 |
|------------------------|--------|--------|-------|-------|-------|
| Wire Decimal, Inches. | .179 | .163 | .147 | .133 | .118 |
| Length Link, Inches. | 2 3/8 | 2 3/8 | 1 3/4 | 1 3/4 | 1 1/2 |
| Tensile Strength, Lbs. | 3250 | 2200 | 1900 | 1650 | 1500 |
| Weight 100 Ft., Lbs. | 33 | 30 3/4 | 26 | 21 | 17 |
| Per 100 Feet | \$9.00 | 7.50 | 6.25 | 5.00 | 4.50 |

| Nos. | 1 | 2 | 3 | 4 |
|--------------------------|--------|-------|-------|------|
| Wire Decimal, Inches. | .105 | .094 | .083 | .072 |
| Length Link, Inches. | 1 3/4 | 1 3/4 | 1 3/4 | 1 |
| Tensile Strength, Lbs. | 1100 | 900 | 750 | 550 |
| Weight Per 100 Ft., Lbs. | 12 1/2 | 10 | 8 | 6 |
| Per 100 Feet | \$4.00 | 3.50 | 3.50 | 3.50 |

100 Foot Lengths.

BROWN



No. 00.

Sherardized, Weldless Steel Wire

| Nos. | 00 | 000 |
|------------------------|--------|-------|
| Wire Decimal, Inches. | .133 | .147 |
| Length Link, Inches. | 2 | 2 3/8 |
| Tensile Strength, Lbs. | 1200 | 1600 |
| Weight 100 Feet, Lbs. | 19 | 23 |
| Per 100 Feet | \$4.00 | 5.00 |

250 Feet on a Reel.

PUMP CHAIN



Galvanized, Open Link

Per 100 Pounds
No. 6—.192 in. Wire, About 30 Lbs. Per 100 Ft. \$16.50
100 Pounds in a Keg.

PORCH SWING CHAINS

BULLDOG Y TYPE

These Chains are used on Porch or Swinging Settees. The upper or Main Branch can be secured to a hook in the ceiling while the two short branches are fastened to the base or arm of the swing.

Made from Bulldog Pattern Chain. Galvanized Polished Bright (G. P. B.) Finish.

Per Set
No. 454—Top Piece and Branches 2/0 Chain, Tensile Strength 1200 Lbs., Safe Working Load of Single Chain 240 Lbs., Weight Per Set 3.8 Lbs. \$0.85

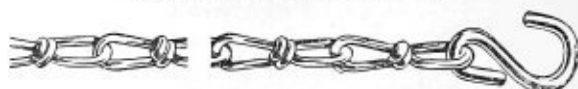
No. 455—Top Piece 2/0 Chain, Branches of 0 Chain, Tensile Strength 1200 Lbs., Safe Working Load of Single Chain 240 Lbs., Weight Per Set 3.2 Lbs. \$1.00

A Set consists of two Y Chains and two Ceiling Hooks.

One Set in a Carton.

PORCH SWING CHAINS

BULLDOG STRAIGHT TYPE



Galvanized Polished Bright (G. P. B.) Finish

Per Set
No. 1075—Size 2/0 Chain, Length 7 1/2 ft., Tensile Strength 1200 Lbs., Safe Working Load Single Chain 240 Lbs., Weight Per Set 2 3/4 Lbs. \$1.50
Set Consists of Four Straight Chains, Four S Hooks and Two Ceiling Hooks.

One Set in a Box.

COW TIES

OHIO

Weldless Ohio Pattern,
Bright Finish

With Two Toggles and a
Swivel.

| Nos. | 4/0 | 3/0 |
|----------------|--------|--------|
| Gauge Wire. | 8 | 9 |
| Wt. Doz., Lbs. | 19 1/2 | 17 1/2 |
| Per Dozen | \$5.50 | 5.00 |

One-half Dozen in a Carton.



TIE-OUT CHAINS

BROWN



Bright Finish,
Fitted with
Stake Ring
and Snap.
Swivel Every
10 Feet.

| Nos. | Length 20 Ft. | Length 30 Ft. |
|-------------------|---------------|---------------|
| 2-0 | 3-0 | 2-0 3-0 |
| Weight Each, Lbs. | 3 1/2 4 1/4 | 5 6 |
| Per Dozen | \$12.00 14.50 | 17.00 21.50 |

One in a Canvas Bag.

HALTER CHAINS

BROWN



Plain, Weldless Steel Wire

| 4½ Feet | | | 6 Feet | | |
|---------|----------------------|--------------|--------|----------------------|--------------|
| Nos. | Weight Doz., Lbs. | Per Dozen | Nos. | Weight Doz., Lbs. | Per Dozen |
| 6/0 | 22 | \$7.50 | 6/0 | 27 | \$9.50 |
| 5/0 | 20 | 6.50 | 5/0 | 24 | 8.00 |
| 4/0 | 16 | 5.50 | 4/0 | 19½ | 7.00 |
| 3/0 | 12½ | 4.75 | 3/0 | 16½ | 6.25 |
| 2/0 | 10 | 4.25 | 2/0 | 13½ | 5.50 |
| 0 | 8 | 3.75 | 0 | 10½ | 4.75 |
| 1 | 6¼ | 3.50 | 1 | 8 | 4.25 |
| 2 | 5¼ | 3.25 | 2 | 6¾ | 4.00 |
| 3 | 4 | 3.25 | 3 | 5¼ | 4.00 |
| 4 | 3¾ | 3.15 | 4 | 4 | 3.75 |
| 5 | 3 | 3.15 | 5 | 3¾ | 3.75 |
| 6 | 2½ | 3.00 | 6 | 2¾ | 3.65 |
| 7 | 1¾ | 3.00 | 7 | 2¼ | 3.65 |

One Dozen in a Carton.

HALTER AND DOG CHAINS

AMERICAN



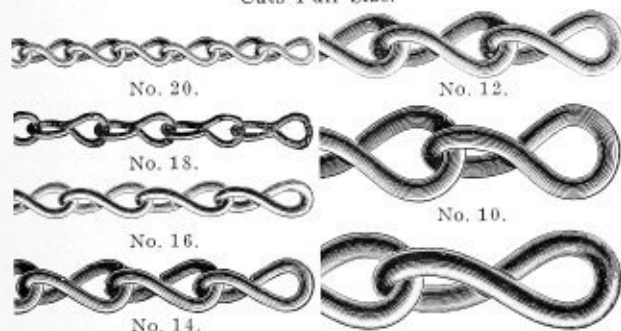
Polished Steel Lock Ring, Patent Interlocking Links, with Snap, Swivel and Toggle.

Halter Chain sizes Nos. 4/0 to 1/0 inclusive, Dog Chain sizes Nos. 1 to 8 inclusive.

| 4½ Feet | | | | 6 Feet | | | |
|---------|---------------------|---------------|-----------|---------------------|---------------|-----------|--|
| Nos. | App. Wt. Doz., Lbs. | No. in Cart'n | Per Dozen | App. Wt. Doz., Lbs. | No. in Cart'n | Per Dozen | |
| 4/0 | 14 | 6 | \$9.00 | 18 | 6 | \$11.50 | |
| 3/0 | 14 | 6 | 8.00 | 18 | 6 | 10.00 | |
| 2/0 | 11 | 6 | 7.50 | 14 | 6 | 9.50 | |
| 1/0 | 11 | 6 | 6.50 | 14 | 6 | 8.00 | |
| 1 | 7¾ | 12 | 5.75 | 9½ | 12 | 7.25 | |
| 2 | 7¾ | 12 | 5.25 | 9½ | 12 | 6.75 | |
| 3 | 6 | 12 | 4.75 | 7¼ | 12 | 6.00 | |
| 4 | 6 | 12 | 4.50 | 7¼ | 12 | 5.50 | |
| 5 | 4 | 12 | 4.00 | 5 | 12 | 5.00 | |
| 6 | 4 | 12 | 3.50 | 5 | 12 | 4.50 | |
| 7 | 2¾ | 12 | 3.50 | 3½ | 12 | 4.50 | |
| 8 | 2½ | 12 | 3.50 | 3 | 12 | 4.50 | |

SINGLE JACK CHAIN

Cuts Full Size.



| No. | Iron | Brass | No. | Iron | Brass | No. | Iron | Brass |
|-----|--------|-------|--------|------|-------|--------|------|-------|
| 5 | 10.00 | 12 | \$0.65 | 2.30 | 19 | \$0.40 | .60 | |
| 6 | \$1.30 | 8.00 | 13 | .60 | 1.92 | 20 | .40 | .55 |
| 7 | 1.10 | 6.35 | 14 | .55 | 1.60 | 21 | .40 | .50 |
| 8 | .95 | 5.25 | 15 | .50 | 1.25 | 22 | .40 | .50 |
| 9 | .90 | 4.25 | 16 | .48 | 1.00 | 23 | .40 | .50 |
| 10 | .80 | 3.50 | 17 | .48 | .84 | 24 | .40 | .50 |
| 11 | .70 | 2.80 | 18 | .45 | .70 | | | |

One Dozen Yards in a Box.

DOUBLE JACK CHAIN

Cuts Full Size.

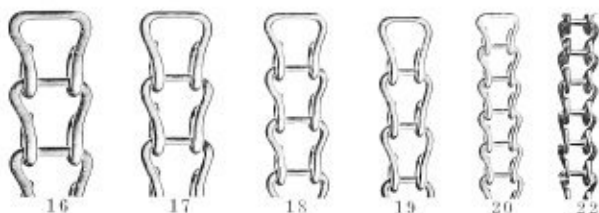


| No. | Iron | Brass | No. | Iron | Brass | No. | Iron | Brass |
|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 10 | \$0.95 | 4.75 | 15 | \$0.58 | 1.60 | 20 | \$0.45 | .72 |
| 11 | .85 | 3.77 | 16 | .53 | 1.32 | 21 | .45 | .70 |
| 12 | .72 | 3.20 | 17 | .51 | 1.10 | 22 | .45 | .70 |
| 13 | .65 | 2.50 | 18 | .48 | .90 | 23 | .45 | .70 |
| 14 | .60 | 2.05 | 19 | .45 | .76 | 24 | .45 | .70 |

One Dozen Yards in a Box.

LADDER CHAIN

BRASS



| Nos. | 16 | 17 | 18 | 19 | 20 | 22 |
|-----------------|--------|------|------|-----|-----|-----|
| Per Doz. Yards. | \$1.45 | 1.30 | 1.14 | .90 | .80 | .80 |

One Dozen Yards in a Box.

SAFETY CHAIN

BRASS



| No. 0. | | | No. 2. | | |
|--------|-----------------|--------|----------------------|-----------------|--------|
| Brass | Per Dozen Yards | | Nickel Plated, Brass | Per Dozen Yards | |
| Nos. | Gauge | | Nos. | Gauge | |
| 00 | .017 | \$1.45 | 00 | .017 | \$1.65 |
| 0 | .021 | 1.80 | 0 | .021 | 2.00 |
| 1 | .028 | 2.25 | 1 | .028 | 2.40 |
| 2 | .035 | 2.90 | 2 | .035 | 3.30 |

One Dozen Yards in a Box.

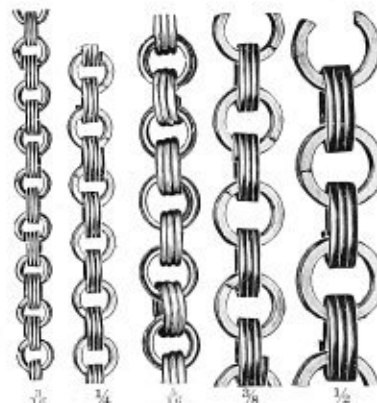
PLUMBERS CHAIN



Navy Style Links

| Brass | | Nickel Plated, Brass | |
|-------|----------------|----------------------|----------------|
| No. | Per Doz. Yards | No. | Per Doz. Yards |
| No. 3 | \$3.60 | No. 3 | \$4.00 |
| No. 4 | 4.15 | No. 4 | 4.65 |

One Dozen Yards in a Box.

UNIVERSAL CHAIN
(DOUBLE JOINTED CHAIN)

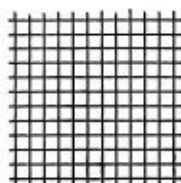
Retinned

Ornamental, Strong and Flexible as a piece of Twine. Will never Kink or Snarl.

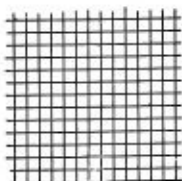
| Size, Inches | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 |
|-------------------|--------|------|------|------|------|
| Weight Reel, Lbs. | 11½ | 23½ | 34 | 40 | 49 |
| Per 100 Feet | \$3.50 | 4.00 | 5.00 | 6.00 | 9.00 |

100 Feet in a Package.

SCREEN WIRE CLOTH



12 Mesh.



14 Mesh.

BLACK PAINTED

Bright Steel Wire, Uniform Weave, Smooth Black Surface.

18 to 48 in. Widths (Even Numbers).

12 Mesh—Per 100 Square Feet.....\$3.50
100 Lineal Feet in a Roll.

SILVER

Galvanized After Weaving. Silver Color.

18 to 48 in. Widths (Even Numbers).

12 Mesh—Per 100 Square Feet.....\$4.00
100 Lineal Feet in a Roll.

BRONZE

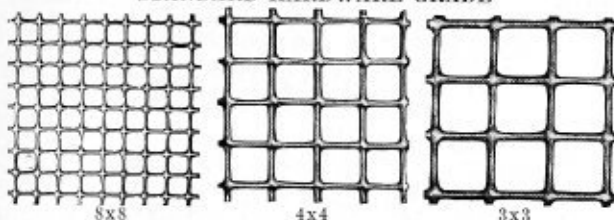
Contains practically 90% copper balanced with remaining percentage of zinc.

18 to 48 in. Widths (Even Numbers).

14 Mesh—Per 100 Square Feet.....\$11.00
50 or 100 Lineal Feet in a Roll.

Square Feet in a Roll and Approximate Weight Per Roll of
100 Lineal Feet

| Width, Inches | 18 | 20 | 22 | 24 | 26 | 28 |
|------------------|---------|---------|---------|---------|---------|---------|
| Sq. Feet in Roll | 150 | 166 2/3 | 183 1/3 | 200 | 216 2/3 | 233 1/3 |
| 12 Mesh, Lbs. | 15 | 17 | 18 1/2 | 20 | 22 | 23 1/2 |
| 14 Mesh, Lbs. | 17 1/2 | 18 1/2 | 21 | 23 | 25 | 27 |
| Width, Inches | 30 | 32 | 34 | 36 | 38 | 40 |
| Sq. Feet in Roll | 250 | 266 2/3 | 283 1/3 | 300 | 316 2/3 | 333 1/3 |
| 12 Mesh, Lbs. | 25 | 27 | 29 | 30 | 32 | 33 |
| 14 Mesh, Lbs. | 29 | 31 | 33 1/2 | 35 | 37 | 38 |
| Width, Inches | 40 | 42 | 44 | 46 | 48 | |
| Sq. Feet in Roll | 333 1/3 | 350 | 366 2/3 | 383 1/3 | 400 | |
| 12 Mesh, Lbs. | 33 1/2 | 35 | 36 1/2 | 38 1/2 | 40 | |
| 14 Mesh, Lbs. | 39 | 41 | 43 | 45 | 46 1/2 | |

GALVANIZED WIRE CLOTH
STANDARD HARDWARE GRADE

Galvanized After Weaving
In Rolls of 50 and 100 Lineal Feet.

| Nos. | 8 | 4 | 3 | 2 |
|------------------|----------------|------------|------------|------------|
| Mesh, Inches | 1/2 | 3/4 | 1 | 1 1/2 |
| Wire Gauge, Nos. | 27 | 23 | 20 | 19 |
| Width, Inches | 24, 30, 36, 48 | 24, 30, 36 | 24, 30, 36 | 24, 30, 36 |
| Per 100 Sq. Feet | \$9.50 | 8.00 | 7.50 | 7.00 |

In 50 Ft. Lengths

24 in. Rolls Contain 100 Square Feet; 30 in., 125 Square Feet; 36 in., 150 Square Feet; 48 in., 200 Square Feet. 100 Lineal Ft. Lengths Contain Twice as Many Square Feet.

BRASS STRAINER CLOTH



In Rolls, 12 in. Wide, 5 ft. Long

| Mesh Nos. | 24 | 30 | 40 | 50 | 60 | 70 | 80 | 100 |
|------------------|--------|-----|-----|-----|-----|-----|-----|------|
| Gauge Wire, Nos. | 30 | 31 | 33 | 35 | 36 | 37 | 38 | 40 |
| Per Square Foot | \$0.30 | .35 | .40 | .45 | .50 | .55 | .75 | 1.00 |

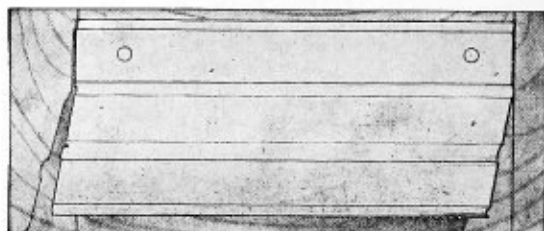
WEATHER STRIP

NUMETAL

Made of a specially prepared spring metal, laboratory tested for temper. So shaped and designed that they will hold their tension and resiliency during the life of the building under ordinary use. Automatically adjust themselves to every weather condition, taking care of all shrinkage and expansion of sash, keeping the cracks sealed, and the wind, dust and rain outside. Simple, effective and economical. Not necessary to remove the window sash from the frame to install.

Complete Instructions for installing furnished with each order.

Style "A" and "D"



Cut Shows Style "A".

Per 100 Feet

Style "A"—1 1/4 in. Wide, Used on Sides of Windows, Bottom of Lower Sash and Sides and Tops of Door Frames.....\$9.00
Style "D"—1 1/4 in. Wide, Used on the Rabbet of Casement Windows or Doors.....9.00

Style "B"



Cut Shows Style "B".

Per 100 Feet

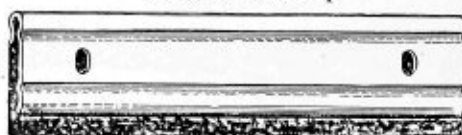
Style "B"—1 1/4 in. Wide, Used at Meeting Rail of Double Hung Windows.....\$9.00

Note—Numetal Weatherstrip is furnished complete with nails in stock lengths of 7 feet. We can furnish special lengths on large orders.

Average Weight Per 100 Feet, 4 1/2 Pounds.

STYLE "E"

Door Bottom Strip



Made of Heavy Brass, Water and Moth Proofed Felt with Slotted Holes.

May be put on either the outside or inside of door bottom.

Simple instructions for installing furnished with each order.

Complete with Solid Brass Screws for Installing.

Per 100 Feet

Style "E"—1 1/4 in. Wide, Weight Per 100 Feet 20 Lbs.....\$16.00

WEATHER STRIP**DOUBLE CONTACT, FELT**

Made with fine selected smooth wood moulding and heavy all wool felt, glued to the bottom of the moulding. Nails are driven through the strip (Moulding and felt) which firmly holds the felt for all time, leaving no chance of its loosening after glue has dried out. A double contact strip as the felt makes a double contact with the window stop and sash. Dust, cold and wind proof.

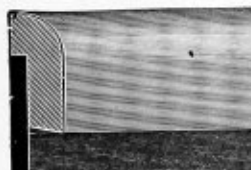


No. 70.

Walnut Stained

Per Foot

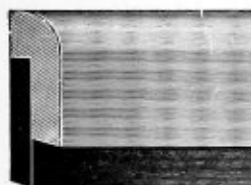
No. 70—Width of Moulding $\frac{3}{4}$ in., for Upper Sash of Windows, Wt. Per Bundle 17 $\frac{1}{2}$ Lbs. \$0.05
500 Feet in a Bundle.



No. 71.

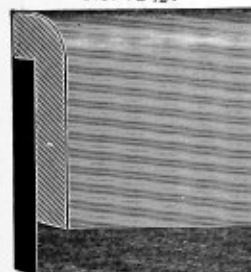
Per Foot

No. 71—Width of Moulding $\frac{3}{4}$ in., for Lower Sash of Windows, Wt. Per Bundle 22 $\frac{1}{2}$ Lbs. \$0.05
500 Feet in a Bundle.

No. 71 $\frac{1}{2}$.

Per Foot

No. 71 $\frac{1}{2}$ —Width of Moulding $\frac{3}{4}$ in., for Sides and Top of Door, Weight Per Bundle 32 $\frac{1}{2}$ Lbs. \$0.07
500 Feet in a Bundle.



No. 75.

Per Foot

No. 75—Width of Moulding 1 $\frac{1}{4}$ in., for Bottom of Heavy Doors, Weight Per Bundle 23 $\frac{1}{2}$ Lbs. \$0.12
250 Feet in a Bundle.

FLEXIBLE ALL RUBBER

Moulded in One Piece, with Cloth Insertion, Requires No Sawing, Cementing or Stitching

Cut Shows No. 8, $\frac{3}{8}$ in.Cut Shows No. 9, $\frac{1}{2}$ in.**For Upper Sash of Windows**

Per Foot

No. 8— $\frac{3}{8}$ in. Wide, Weight Per 1000 ft. 20 Lbs. \$0.05
One Coil of 50 Feet in a Box.

For Lower Sash of Windows

No. 9— $\frac{1}{2}$ in. Wide, Weight Per 1000 ft. 25 Lbs. \$0.06
One Coil of 50 Feet in a Box.

For Sides and Tops of Doors

No. 10— $\frac{3}{4}$ in. Wide, Weight Per 1000 ft. 35 Lbs. \$0.08
One Coil of 50 Feet in a Box.

For Bottom of Door

No. 11—1 in. Wide, Weight Per 1000 ft. 45 Lbs. \$0.10
One Coil of 50 Feet in a Box.

WEATHER STRIP**BOSLEY WOOD AND FELT COMBINED**

(Reduced Cut)

Walnut Stained

Per Foot

No. 62—Width of Moulding $\frac{3}{4}$ in., for Center of Window, Weight Per Bundle 25 Lbs. \$0.08
500 Feet in a Bundle.

BOSLEY "IMPROVED SERVICE"

No. 501.

Made of Fabric impregnated and surfaced with Pure Rubber. Filled with uniform cushion of best quality Cotton wicking.

A perfect insulation for all uses against weather conditions. Only hammer and tacks needed to apply.

Per Foot

No. 501—Small, Width of Strip $\frac{1}{2}$ in., Mahogany Finish, Weight Per 1000 ft. 45 Lbs. \$0.08
No. 511—Medium, Width of Strip $\frac{3}{4}$ in., Mahogany Finish, Weight Per 1000 ft. 55 Lbs. \$0.08
50 Feet in a Box.

CUSHION ALL FELT

No. 18.



No. 19.

Tacks, Hammer and Shears are all that are necessary for applying. Stitched for blind nailing.

Per Foot

No. 18— $\frac{1}{2}$ in. Wide, for Sides of Window, Weight Per 1000 ft. 15 Lbs. \$0.03
50 Feet in a Box.

No. 19— $\frac{3}{4}$ in. Wide, for Sides and Top of Door, Weight Per 1000 ft. 18 Lbs. \$0.03 $\frac{1}{2}$
50 Feet in a Box.

No. 20— $\frac{3}{4}$ in. Wide, for Bottom of Door, Weight Per 1000 ft. 21 Lbs. \$0.04
50 Feet in a Box.

G-B FELT STRIPPING

Prevents draughts coming in through windows and doors.

Guarantees absolute comfort by keeping the cold air out and the warm air in.

Also prevents windows from rattling.

Easy to attach and stays in place.

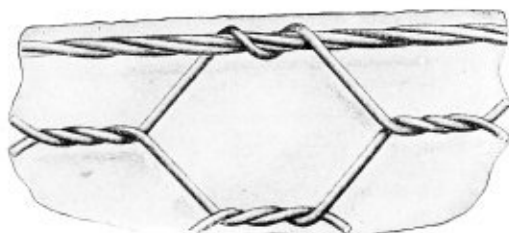
Per Carton

No. GB— $\frac{7}{8}$ in. Wide, \$0.10
10 Feet in a Carton.



POULTRY NETTING

GALVANIZED STEEL WIRE



Full Size Cut of 1 in. Mesh.
Galvanized After Weaving
Prices Per Roll of 150 or 50 Lineal Feet.

| 1 in. Mesh, No. 20 Wire | | | | |
|-------------------------|---------|-------|-------|-------|
| Width, Inches | 12 | 18 | 24 | 30 |
| 150 ft. Rolls | \$4.95 | 7.12 | 9.08 | 10.83 |
| 50 ft. Rolls | 1.90 | 2.59 | 3.28 | 3.86 |
| Width, Inches | 36 | 48 | 60 | 72 |
| 150 ft. Rolls | \$12.38 | 16.50 | 20.63 | 24.75 |
| 50 ft. Rolls | 4.38 | 5.75 | 7.13 | 8.50 |

| 1 1/2 in. Mesh, No. 18 Wire | | | | |
|-----------------------------|---------|----|----|----|
| Width, Inches | 12 | 18 | 24 | 30 |
| 150 ft. Rolls | \$24.75 | | | |
| 50 ft. Rolls | 8.50 | | | |

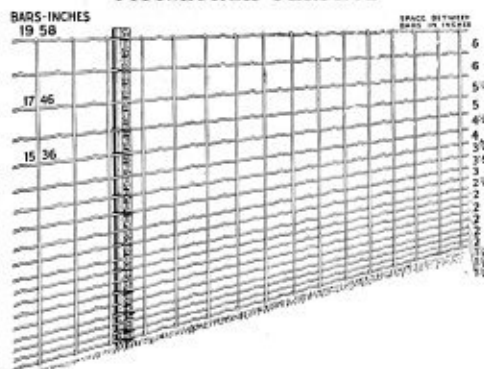
| 2 in. Mesh, No. 20 Wire | | | | |
|-------------------------|--------|------|------|------|
| Width, Inches | 12 | 18 | 24 | 30 |
| 150 ft. Rolls | \$2.14 | 3.08 | 3.92 | 4.68 |
| 50 ft. Rolls | .96 | 1.28 | 1.56 | 1.81 |

| 2 in. Mesh, No. 16 Wire | | | | |
|-------------------------|---------|----|----|----|
| Width, Inches | 12 | 18 | 24 | 30 |
| 150 ft. Rolls | \$24.75 | | | |
| 50 ft. Rolls | 8.50 | | | |

| Square Feet in a Roll | | | | |
|-----------------------|-----|-----|-----|-----|
| Width, In. | 12 | 18 | 24 | 30 |
| 150 Lin. Ft. | 150 | 225 | 300 | 375 |
| 50 Lin. Ft. | 50 | 75 | 100 | 125 |

POULTRY AND GARDEN FENCE

PITTSBURGH PERFECT



Maximum strength, economy and durability are combined in this widely popular poultry fence. It is easily erected, requires few posts and saves the expense of top rails and bottom boards.

The electrically welded joints eliminate wraps, ties and surplus weight, affording a neat, one-piece fence fabric. Super zinned.

Special

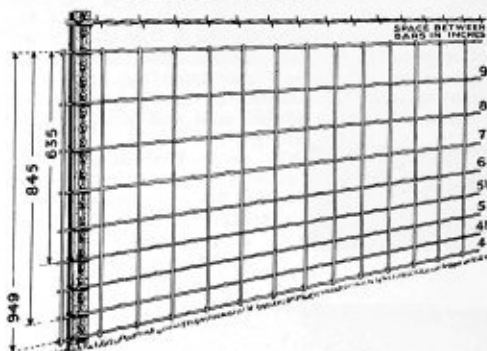
Top and Bottom Wires No. 11 Gauge, Other Wires No. 14 Gauge. Distance Between Stay Wires 6 in.

| Nos. | 1958 | 1746 | 1536 |
|---------------------------|--------|------|------|
| No. of Bars | 19 | 17 | 15 |
| Height, Inches | 58 | 46 | 36 |
| App. Weight Per Rod, Lbs. | 8.9 | 7.8 | 6.7 |
| Per 10 Rods | \$9.40 | 8.20 | 7.20 |

Ten Rods in a Roll.

FARM AND SHEEP FENCE

PITTSBURGH PERFECT



This design affords effective enclosures for cattle, horses and sheep. Where close mesh is not required, this fence is very practical and economical.

Electrically welded joints. Super zinned.

No. 9 Gauge

All Wires of No. 9 Gauge, 12 in. Between Stays.

| Nos. | 949-9 | 845-9 | 635-9 |
|---------------------------|--------|-------|-------|
| No. of Bars | 9 | 8 | 6 |
| Height, Inches | 49 | 45 | 35 |
| App. Weight Per Rod, Lbs. | 12.8 | 11.5 | 8.8 |
| Per 10 Rods | \$9.80 | 8.80 | 6.80 |

Ten Rods in a Roll.

No. 11 Gauge

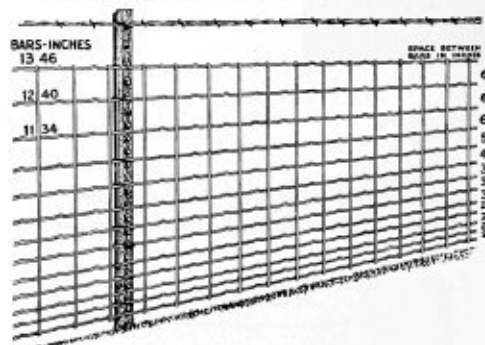
No. 9 Gauge Top and Bottom Wires, All Other Wires No. 11 Gauge, 12 in. Between Stays.

| Nos. | 949-11 | 845-11 | 635-11 |
|---------------------------|--------|--------|--------|
| No. of Bars | 9 | 8 | 6 |
| Height, Inches | 49 | 45 | 35 |
| App. Weight Per Rod, Lbs. | 9.1 | 8.1 | 6.3 |
| Per 10 Rods | \$7.20 | 6.60 | 5.30 |

Ten Rods in a Roll.

HOG AND CATTLE FENCE

PITTSBURGH PERFECT RAZORBACK



This style is popular for barring razorback hogs, the purpose for which it was especially designed. It is also used extensively for barnyards. Its general fine mesh, and the close spacing of the lower-line wires turn the smallest pigs, and half and full-grown chickens.

Electrically welded joints. Super zinned.

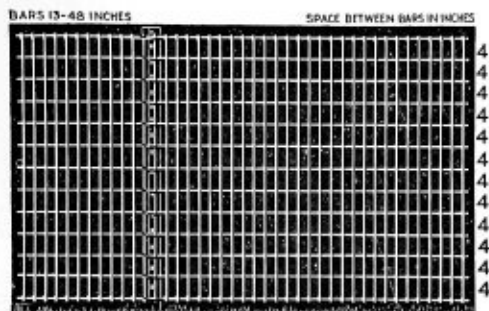
No. 12 1/2 Gauge

Top and Bottom Wires No. 10 Gauge, All Other Wires No. 12 1/2 Gauge, 12 in. Between Stays.

| Nos. | 1346 | 1240 | 1134 |
|---------------------------|--------|------|------|
| No. of Bars | 13 | 12 | 12 |
| Height, Inches | 46 | 40 | 34 |
| App. Weight Per Rod, Lbs. | 8.1 | 7.5 | 6.8 |
| Per 10 Rods | \$7.20 | 6.60 | 6.00 |

Ten Rods in a Roll.

LAWN FENCE PITTSBURGH PERFECT



Pittsburgh Perfect Close Mesh Lawn Fence is widely known for its adaptability to a great number of uses. It is an attractive lawn fence, the close spacing of both line and stay wires giving it the obvious quality of snug protection. Non-climbable. Electrically welded.

It is a popular inclosure for gardens, orchards, barnyards, poultry runs, parks and cemeteries. Its miscellaneous uses include stall guards, grape arbors, trellises, tree and window guards, tennis courts and wire corn cribs.

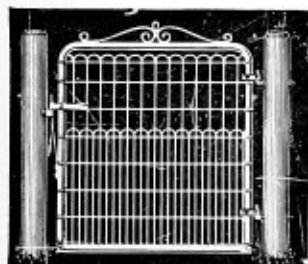
Plain, Close Mesh

Made entirely of No. 11 Gauge Wires. Stay Wires 1 1/2 in. apart. Super-zinc.

| Nos. | 1036P | 1140P | 1348P |
|----------------------------|---------|-------|-------|
| No. of Bars..... | 10 | 11 | 13 |
| Height, Inches..... | 36 | 40 | 48 |
| App. Wt. Per 100 Ft., Lbs. | 112 | 124 | 147 |
| Per 100 Feet..... | \$11.50 | 12.00 | 14.30 |

100 and 150 Lineal Feet in a Roll.

WALK GATES



PITTSBURGH PERFECT

Heavy Steel Tubing Frame, Corners held by Heavy Castings.

Covered with Pittsburgh Perfect Double Scroll Ornamental Lawn Fence.

Zinc Galvanized

Complete with fittings for wood posts. Steel post fittings are extra.

| Width Opening, Feet.. | 3 | 3 | 3 | 3 1/2 | 3 1/2 |
|--------------------------|--------|------|------|-------|-------|
| Height, Inches..... | 36 | 42 | 48 | 36 | 42 |
| Weight Each, Lbs..... | 21 | 22 | 25 | 26 | 27 |
| Each..... | \$4.70 | 4.80 | 5.00 | 5.40 | 5.60 |
| Width Opening, Feet..... | 3 1/2 | 4 | 4 | 4 | 4 |
| Height, Inches..... | 48 | 36 | 42 | 48 | |
| Weight Each, Lbs..... | 29 | 28 | 29 | 30 | |
| Each..... | \$5.80 | 5.80 | 5.90 | 6.00 | |

FENCE POSTS

BANNER STEEL

Built like a railroad rail giving it greater strength in all directions than it is possible to secure in any other section of equal weight.

Anchor plates are 3 1/2 x 9 in. riveted lengthwise on the stem of the post.

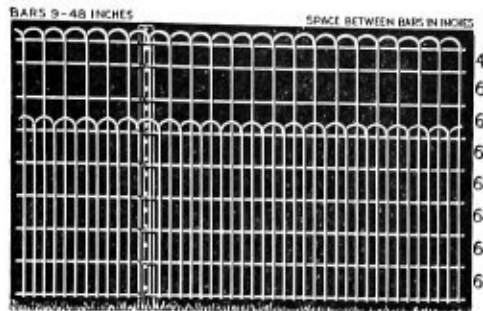
Frequent notches on the face of the post make it possible to fasten any or every line wire with special hump clamps, which are easily attached.

Light Gray Painted Finish

Seven Clamps Free with Each Post.

| Length, Feet..... | 3 1/2 | 4 |
|--------------------------------|----------|-------|
| Weight Each, Lbs. (Approx.)... | 4 1/2 | 5 1/2 |
| Each..... | \$0.50 ✓ | .50 |

ORNAMENTAL LAWN FENCE PITTSBURGH PERFECT



All wires are neatly and inseparably welded at every contact point. Closely spaced upright wires keep the fence always trim and erect.

Scrolls cannot pull out because each is welded to the next corresponding wire.

Close Spacing keeps out small chicks and makes the fence non-climbable. Add to the beauty of any lawn.

Special Ornamental, Double Scroll, Super-zinc

Spacing between upper pickets 2 1/2 in., spacing between lower pickets 1 1/2 in., made entirely of No. 9 wire.

| Nos. | 736X | 842X | 948X |
|----------------------------|---------|-------|-------|
| Height, Inches..... | 36 | 42 | 48 |
| Number of Bars..... | 7 | 8 | 9 |
| App. Wt. Per 100 Ft., Lbs. | 161 | 188 | 215 |
| Per 100 Feet..... | \$16.00 | 17.75 | 20.00 |

100 and 150 Feet in a Roll.

FENCE POSTS

STUDDER TEE, LINE

Pittsburgh Perfect Line Posts have studs formed on them to hold the fence wires in place. The posts are actually strengthened by these studs, instead of being weakened by holes or slots for staples.

Wire fasteners are furnished with the posts. The fasteners have greater strength than staples, and are easily attached with an ordinary hammer.

Open Hearth Steel, Metallic Enamel Finish.

1 3/8 x 1 3/8 x 3/8 in.

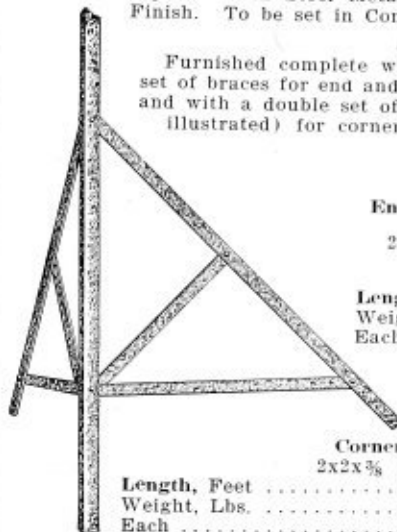
| Length, Feet.... | 6 1/2 | 7 | 7 1/2 | 8 |
|-------------------|--------|------|-------|-------|
| App. Wt., Lbs.... | 9.32 | 9.98 | 10.65 | 11.31 |
| Each..... | \$0.65 | .70 | .75 | .80 |

END, GATE AND CORNER

Angle Type

Made of Open Hearth Steel Metallic Enamel Finish. To be set in Concrete.

Furnished complete with a single set of braces for end and gate posts, and with a double set of braces (as illustrated) for corner posts.



End and Gate

2x2x3/8 in.

| | |
|-------------------|--------|
| Length, Feet..... | 7 |
| Weight, Lbs..... | 52.5 |
| Each..... | \$3.60 |

| | |
|----------------|--------|
| Length, Ft.... | 9 |
| Wt., Lbs.... | 67 |
| Each..... | \$4.50 |

Corner

2x2x3/8 in.

| | | |
|-------------------|--------|------|
| Length, Feet..... | 7 | 9 |
| Weight, Lbs..... | 84 | 105 |
| Each..... | \$5.70 | 7.15 |

FLOWER BED AND LAWN BORDER

PERFECTION



No. 9 Heavily Galvanized Wire Pickets, Spaced 3 in. Apart

No. 13 Heavily Galvanized Cables Spaced 6 in. Apart
Except Two Top Cables which are Spaced 2 3/8 in. Apart.No. 316—16 in. High, 3 Cables, Weight Per Foot
1/2 Lb. \$0.11No. 422—22 in. High, 4 Cables, Weight Per Foot
3/4 Lb.13No. 528—28 in. High, 5 Cables, Weight Per Foot
1 1/4 Lbs.15

This fabric is also much used in cemeteries around grave lots, also for lawn and curbside border, making a very pretty protection for this purpose.

The bottom of pickets are left straight to be inserted in the ground, making it very easy to place fabric in position.

10 and 20 Rods in a Roll.

FLOWER AND VINE TRELLIS

"L-EXTRA"

Heavily Galvanized No. 11 Corrugated Cross Wires, No. 13 Cables

Cross Wires Spaced 4 in. Apart.

No. 18—18 in. Wide, Weight
Per Foot 3/4 Lb. \$0.14No. 24—24 in. Wide, Weight
Per Foot 1 Lb.16No. 30—30 in. Wide, Weight
Per Foot 1 1/2 Lbs.18

Practical and durable in construction, and very attractive in appearance. Just the thing for climbing vines and flowers. Being made of heavy wire, it retains its shape perfectly, therefore is easily placed in position and will last indefinitely.

10 Rods in a Roll.

TREE GUARDS

NORWOOD

Protects young trees in public parks, subdivisions, golf links, boulevards, private grounds, etc.

Substantially made.

No. 7 Heavily Galvanized Wire Woven Together with No. 12 Galvanized Wire Cable

No. 2—Diameter 12 in., Height 72 in.,
Weight Each 8 1/4 Lbs. \$20.00

Open Stock.

BARBED WIRE

PITTSBURGH PERFECT



Four Point, Round Barbs

Cattle, Galvanized, Barbs 5 in. Apart.

12 1/2 Gauge.

Per Spool

80 Rod Spools—Weight Per Spool About 90 Lbs. \$5.85
100 Ft. Coils—Weight Per Coil About 6 3/4 Lbs. 1.25

CABLE OR TWISTED WIRE



Two Strands, No. 12 1/2 Wire

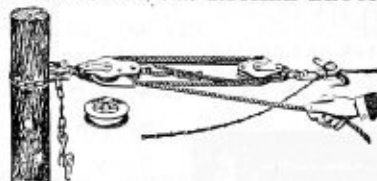
Per Spool

Galvanized—On 80 Rod Spools, Weight Per Spool
About 70 Lbs. \$4.90

Note—For Poultry Netting Staples and Fence Staples Refer to Page 303.

WIRE STRETCHERS

GIANT STAR, JR. TACKLE BLOCK



Roller Bearing, Gray Enamel Finish

Quick, absolutely sure, never slips, for the heavier the pull the better the lock holds. A one pound pull on the rope is equal to four pounds on the wire. Self-supporting from the post and locked and unlocked by a simple right or left movement of the hand.

Per Dozen

No. 714—Large Steel Blocks, 2 1/2 in. Diameter
Sheaves, Heavy Malleable Iron Straps, Removable Steel Axles, Hardened Roller Bearings, Equipped with Improved Wire Clamp, Chain and 20 ft. 1/2 in. Manila Rope, Shipping Weight
Per Dozen 108 Lbs. \$43.20

Open Stock.

TOWNSEND



Each

Townsend—3 ft. Hardwood Handle, Malleable Iron
Pinchers, with Serrated Steel Grips, Warranted
Not to Slip, Weight Per Dozen 45 Lbs. \$2.00

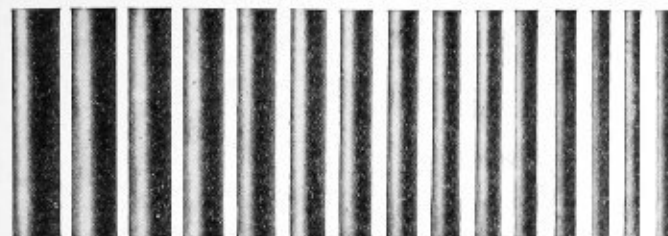
With this implement the person stretching the wire can nail it to the post from which he is stretching without assistance.

It stretches to the last post at the end of the fence as well as to any other.

Also very convenient for tightening bands and wire on large shipping boxes, bales and crates.

Open Stock.

PLAIN FENCE WIRE



Cuts Show Actual Size of Wire.

Base \$. . . Cwt.

Advances Over Base, Price Per 100 Lbs., In 100 Lb. Bundles

| Nos. | 1 to 5 | 6 to 9 | 10 | 11 | 12 |
|------------------------|--------|--------|-----|-----|-----|
| For Annealed Wire... | \$0.15 | .15 | .20 | .25 | .30 |
| For Galvanized Wire... | .85 | .60 | .65 | .70 | .80 |

| Nos. | 13 | 14 | 15 | 16 | 17 | 18 |
|------------------------|--------|------|------|------|------|------|
| For Annealed Wire... | \$0.40 | .50 | .70 | .90 | 1.15 | 1.65 |
| For Galvanized Wire... | .95 | 1.15 | 1.45 | 1.65 | 2.00 | 2.50 |

TABLE SHOWING SIZE, WEIGHT AND LENGTH OF WIRE

| Gauge Nos. | Diameter, Inches | Feet in 100 Pounds | Weight 100 Feet, Lbs. | Weight Mile, Lbs. |
|------------|------------------|--------------------|-----------------------|-------------------|
| 1 | .2830 | 468 | 21.36 | 1128 |
| 2 | .2625 | 544 | 18.38 | 970 |
| 3 | .2437 | 631 | 15.84 | 836 |
| 4 | .2253 | 738 | 13.54 | 715 |
| 5 | .2070 | 875 | 11.43 | 603 |
| 6 | .1920 | 1017 | 9.832 | 519 |
| 7 | .1770 | 1197 | 8.356 | 441 |
| 8 | .1620 | 1429 | 7.000 | 369 |
| 9 | .1483 | 1705 | 5.866 | 309 |
| 10 | .1350 | 2057 | 4.861 | 256 |
| 11 | .1205 | 2582 | 3.873 | 204 |
| 12 | .1055 | 3369 | 2.969 | 156 |
| 13 | .0915 | 4485 | 2.233 | 117 |
| 14 | .0800 | 5858 | 1.707 | 90 |
| 15 | .0720 | 7232 | 1.383 | 73 |
| 16 | .0625 | 9598 | 1.042 | 55 |
| 18 | .0475 | 16620 | .600 | 32 |

Weights and lengths given are approximate, to aid in ordering, but are not guaranteed.

MARKET WIRE

Price Per 100 Lbs.
100 Pounds in a Bundle.

| Sizes | Bright | Coppered | Tinned |
|--------|--------|----------|--------|
| 0 to 5 | \$6.55 | \$7.65 | \$8.95 |
| 6 | 6.45 | 7.55 | 8.85 |
| 7 | 6.45 | 7.55 | 8.85 |
| 8 | 6.45 | 7.55 | 8.85 |
| 9 | 6.65 | 7.55 | 8.85 |
| 10 | 6.75 | 7.65 | 8.95 |
| 11 | 7.05 | 7.75 | 9.05 |
| 12 | 7.15 | 8.05 | 9.15 |
| 13 | 7.35 | 8.25 | 9.55 |
| 14 | 7.75 | 8.75 | 10.25 |
| 15 | 8.15 | 9.45 | 11.15 |
| 16 | 8.75 | 9.85 | 12.05 |
| 17 | 9.25 | 10.85 | 13.05 |
| 18 | 10.25 | 11.85 | 14.05 |

STONE WIRE



Put up in 8 in. inside diameter coils, weighing 12 pounds each.

Price Per 100 Pounds

| Steel Wire Gauge | Black Annealed | Galvanized | Tinned |
|------------------|----------------|------------|---------|
| 16 | \$9.40 | \$11.90 | \$12.40 |
| 17 | 10.40 | 12.90 | 13.40 |
| 18 | 11.00 | 13.50 | 14.00 |
| 19 | 11.20 | 14.10 | 14.60 |
| 20 | 11.40 | 14.30 | 14.80 |
| 21 | 11.60 | 14.80 | 15.00 |
| 22 | 12.00 | 15.20 | 16.00 |
| 23 | 14.20 | 18.00 | 18.50 |
| 24 | 14.60 | 18.50 | 19.60 |
| 25 | 15.20 | 19.70 | 20.70 |
| 26 | 16.20 | 21.10 | 22.70 |
| 27 | 17.20 | 22.70 | 24.20 |
| 28 | 17.70 | 23.70 | 25.40 |
| 29 | 18.20 | 24.70 | 26.40 |
| 30 | 18.70 | 27.20 | 28.20 |
| 31 | 19.70 | 28.70 | 29.70 |

COPPERED STEEL SPRING WIRE

100 Pounds in a Bundle

| Nos. | 00 to 9 | 10 | 11 | 12 |
|---------------------|---------|-------|-------|-------|
| Per 100 Pounds..... | \$11.50 | 11.70 | 11.90 | 12.10 |
| Nos. | 13 | 14 | 15 | 16 |
| Per 100 Pounds..... | \$12.50 | 13.00 | 14.20 | 15.20 |

12 Pounds in a Stone

| Nos. | 17 | 18 | 19 | 20 | 21 | 22 |
|---------------------|---------|-------|-------|-------|-------|-------|
| Per 100 Pounds..... | \$19.20 | 21.20 | 22.70 | 24.70 | 38.70 | 41.20 |

BRASS WIRE

IN COILS



Spring Brass and Soft Brass

Brown & Sharpe's Gauge.

Base Price \$. . . Per 100 Pounds.

| Gauge Nos. | Diam., Inches | Advance Over Base Per Lb. | Gauge Nos. | Diam., Inches | Advance Over Base Per Lb. |
|--------------|------------------|---------------------------|------------|---------------|---------------------------|
| 8 and Larger | .1285 and Larger | Base | 17 | .0453 | .03 1/2 |
| 9 | .1144 | \$0.01 | 18 | .0403 | .03 1/2 |
| 10 | .1019 | .01 | 19 | .0359 | .04 1/2 |
| 11 | .0907 | .01 | 20 | .0320 | .04 1/2 |
| 12 | .0808 | .02 | 21 | .0285 | .05 1/2 |
| 13 | .0720 | .02 | 22 | .0254 | .05 1/2 |
| 14 | .0641 | .02 | 23 | .0226 | .06 |
| 15 | .0571 | .03 | 24 | .0201 | .06 1/2 |
| 16 | .0508 | .03 | | | |

Extras for Quantities Less than 200 Pounds.

| Per Pound | Per Pound |
|---------------------------|-------------------------|
| 199 to 100 Lbs.....\$0.02 | 49 to 25 Lbs.....\$0.10 |
| 99 to 75 Lbs......03 | Under 25 Lbs......25 |
| 74 to 50 Lbs......05 | |

SOFT COPPER WIRE



IN COILS

Round, Solid, Bare

Brown & Sharpe's Gauge.

Per 100 Pounds

Base Price.....\$.....

| Gauge Nos. | Diam. Inches | Advance Over Base Per Lb. | Gauge Nos. | Diam. Inches | Advance Over Base Per Lb. |
|------------|--------------|---------------------------|------------|--------------|---------------------------|
| 0000 to 8 | .460 | Base | 16 | .0508 | \$0.01 1/4 |
| 9 | .1144 | | 17 | .0452 | .01 1/2 |
| 10 | .1019 | .00 1/2 | 18 | .0403 | .01 3/4 |
| 11 | .0907 | .00 5/8 | 19 | .0359 | .02 |
| 12 | .0808 | .00 3/4 | 20 | .0319 | .02 1/4 |
| 13 | .0719 | .00 7/8 | 21 | .0284 | .02 3/4 |
| 14 | .0641 | .01 | 22 | .0253 | .03 1/8 |
| 15 | .0570 | .01 1/8 | 23 | .0225 | .03 3/4 |
| | | | 24 | .0201 | .04 1/4 |

Extras for Quantities Less Than 200 Pounds

| | Per Pound |
|-----------------|-----------|
| 199 to 100 Lbs. | \$0.01 |
| 99 to 75 Lbs. | .02 |
| 74 to 50 Lbs. | .03 |
| 49 to 25 Lbs. | .05 |
| Under 25 Lbs. | .10 |

SPOOL WIRE



Annealed Black Wire

1/4 Lb. Spools.

| Gauge Nos. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|------------|--------|-----|------|------|------|------|------|------|
| Per Dozen. | \$0.96 | .90 | 1.02 | 1.10 | 1.14 | 1.20 | 1.22 | 1.34 |

1/2 Lb. Spools.

| Gauge Nos. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|------------|--------|------|------|------|------|------|------|------|
| Per Dozen. | \$1.58 | 1.64 | 1.68 | 1.80 | 1.94 | 2.04 | 2.13 | 2.35 |

Annealed Tinned Wire

1/4 Lb. Spools.

| Gauge Nos. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|------------|--------|------|------|------|------|------|------|------|
| Per Dozen. | \$1.20 | 1.20 | 1.25 | 1.32 | 1.40 | 1.50 | 1.65 | 1.78 |

Soft Brass Wire

1/4 Lb. Spools.

| Gauge Nos. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|------------|--------|------|------|------|------|------|------|------|
| Per Dozen. | \$2.20 | 2.20 | 2.20 | 2.40 | 2.60 | 2.70 | 3.46 | 4.20 |

Spring Brass Wire

1/4 Lb. Spools.

| Gauge Nos. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|------------|--------|------|------|------|------|------|------|------|
| Per Dozen. | \$2.20 | 2.20 | 2.20 | 2.40 | 2.60 | 2.70 | 3.46 | 4.20 |

Soft Copper Wire

1/4 Lb. Spools.

| Gauge Nos. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|------------|--------|------|------|------|------|------|------|------|
| Per Dozen. | \$2.20 | 2.20 | 2.20 | 2.40 | 2.60 | 2.70 | 3.46 | 4.20 |

1/2 Lb. Spools.

| Gauge Nos. | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|------------|--------|------|------|------|------|------|------|------|
| Per Dozen. | \$3.90 | 3.90 | 3.90 | 4.40 | 4.70 | 4.90 | 6.12 | 7.44 |

All Above, One Dozen Spools in a Box.

HAIR WIRE



Black

1 Ounce Spools.

| Gauge Nos. | 28 | 30 | 32 | 34 | 36 |
|------------|--------|------|------|------|------|
| Per Gross. | \$3.50 | 3.75 | 4.00 | 4.25 | 5.25 |

Tinned

1 Ounce Spools.

| Gauge Nos. | 28 | 30 | 32 | 34 | 36 |
|------------|--------|------|------|------|------|
| Per Gross. | \$4.25 | 4.50 | 4.75 | 5.00 | 6.00 |

One Dozen Spools in a Box.

MUSIC STEEL SPRING WIRE

CROWN



A Fine Polished Wire for Musical Strings, etc., recommended also for Highly Finished Springs and similar mechanical uses.

Suitable for Cutting Wires.

One Pound Coils

| No. | Diam-eter | Ft. Per Pound | Per Pound | No. | Diam-eter | Ft. Per Pound | Per Pound |
|-----|-----------|---------------|-----------|-----|-----------|---------------|-----------|
| 1 | .010 | 3749 | \$7.50 | 24 | .055 | 124 | \$1.20 |
| 2 | .011 | 2936 | 6.00 | 25 | .059 | 108 | 1.20 |
| 3 | .012 | 2604 | 5.00 | 26 | .063 | 94 | 1.20 |
| 4 | .013 | 2218 | 4.00 | 27 | .067 | 83 | 1.20 |
| 5 | .014 | 1913 | 3.50 | 28 | .071 | 74 | 1.20 |
| 6 | .016 | 1465 | 3.00 | 29 | .075 | 68 | 1.20 |
| 7 | .018 | 1157 | 2.75 | 30 | .080 | 58 | 1.20 |
| 8 | .020 | 937 | 2.50 | 31 | .085 | 54 | 1.20 |
| 9 | .022 | 775 | 2.25 | 32 | .090 | 51 | 1.20 |
| 10 | .024 | 651 | 2.00 | 33 | .095 | 46 | 1.20 |
| 11 | .026 | 560 | 1.80 | 34 | .100 | 43 | 1.20 |
| 12 | .029 | 447 | 1.80 | 35 | .106 | 39 | 1.20 |
| 13 | .031 | 391 | 1.60 | 36 | .112 | 36 | 1.20 |
| 14 | .033 | 344 | 1.60 | 37 | .118 | 34 | 1.20 |
| 15 | .035 | 305 | 1.60 | 38 | .124 | 32 | 1.20 |
| 16 | .037 | 274 | 1.40 | 39 | .130 | 29 | 1.20 |
| 17 | .039 | 247 | 1.40 | 40 | .138 | 27 | 1.20 |
| 18 | .041 | 223 | 1.40 | 41 | .146 | 23 | 1.20 |
| 19 | .043 | 203 | 1.20 | 42 | .154 | 21 | 1.20 |
| 20 | .045 | 185 | 1.20 | 43 | .162 | 18.5 | 1.20 |
| 21 | .047 | 170 | 1.20 | 44 | .170 | 17 | 1.20 |
| 22 | .049 | 156 | 1.20 | 45 | .180 | 16.6 | 1.20 |
| 23 | .051 | 144 | 1.20 | | | | |

STOVE PIPE WIRE



Dark Annealed

50 Foot Coils.

| Wire Gauge Nos. | 18 | 19 | 20 |
|------------------|--------|-----|-----|
| Per Dozen Coils. | \$0.48 | .42 | .36 |

One Dozen Coils in a Box.

INSULATED BELL WIRE



Assorted Colors

No. 18 Gauge, Cotton Wrapped.

| | Per Dozen Spools |
|------------------|------------------|
| 25 Foot Spools. | \$2.50 |
| 50 Foot Spools. | 4.40 |
| 100 Foot Spools. | 7.75 |

Open Stock.

Our Stock of Wire Includes a Type and Size for Every Requirement.
Send Us Your Orders.

SPRING STEEL



FLAT TEMPERED

For Locks, Etc.

Catch Weight Bundles

| | | | |
|-------------------|---------------|----------------|---------------|
| Width, Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ |
| Thickness, Inches | .041 | .041 | .041 |
| Per Pound | \$0.75 | .75 | .75 |

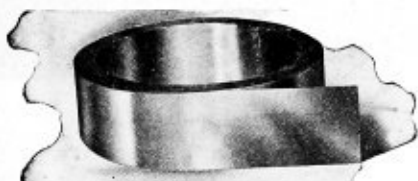
HOOP IRON



| | | | |
|----------------|---------------|----|-----------------|
| Width, Inches | $\frac{3}{4}$ | 1 | 1 $\frac{1}{4}$ |
| Gauge | 20 | 20 | 20 |
| Per 100 Pounds | | | Market |

Prices on Application.

FLAT STRIP BRASS



Catch Weight Bundles, No. 19 Gauge

| | | | | | | | | | |
|---------------|---------------|---------------|---------------|---------------|---|-----------------|-----------------|-----------------|--------|
| Width, Inches | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Per Pound | | | | | | | | | Market |

BESSEMER STEEL RODS



Coppered Steel, 4 ft. Lengths

| | | | | | | | |
|------------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|
| Diameter, Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ |
| Per Pound | | | | | | | Market |

ROUND BRASS RODS



Free Turning

Stock Lengths Vary from 8 to 12 ft.

Base Price \$..... Per 100 Lbs.

| | | | | |
|------------------------|----------------------|-------------------|-------------------|-------------------|
| Diameter, Inches | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ |
| Weight Per Foot, Lbs. | .045 | .10 | .181 | .282 |
| Ad. Over Base, Per Lb. | \$0.04 $\frac{1}{2}$ | .04 $\frac{1}{2}$ | .02 $\frac{1}{2}$ | .02 $\frac{1}{2}$ |

| | | | |
|------------------------|---------------|----------------|---------------|
| Diameter, Inches | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ |
| Weight Per Foot, Lbs. | .407 | .55 | .72 |
| Ad. Over Base, Per Lb. | \$0.01 | .01 | .01 |

| | | | | |
|--------------------------|---------------|---------------|---------------|------|
| Diameter, Inches | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Weight Per Foot, Lbs. | 1.13 | 1.63 | 2.24 | 2.89 |
| Ad. Over Base, Per Pound | | | | Base |

| | | | |
|--------------------------|-----------------|-----------------|-----------------|
| Diameter, Inches | 1 $\frac{1}{8}$ | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ |
| Weight Per Foot, Lbs. | 3.67 | 4.52 | 6.51 |
| Ad. Over Base, Per Pound | | | Base |

ROUND DRILL RODS



Crucible Steel, Polished, In 1 and 3 ft. Lengths

| | | | | | | | |
|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|
| Size, Inches | 1 | $\frac{11}{16}$ | $\frac{3}{4}$ | $\frac{13}{16}$ | $\frac{7}{8}$ | $\frac{15}{16}$ | $\frac{1}{2}$ |
| Per Pound | \$0.50 | .50 | .50 | .55 | .55 | .55 | .55 |
| Size, Inches | $\frac{1}{2}$ | $\frac{11}{16}$ | $\frac{3}{4}$ | $\frac{13}{16}$ | $\frac{7}{8}$ | $\frac{15}{16}$ | $\frac{1}{2}$ |
| Per Pound | \$0.55 | .60 | .60 | .60 | .75 | .75 | .75 |
| Size, Inches | $\frac{11}{16}$ | $\frac{3}{4}$ | $\frac{13}{16}$ | $\frac{7}{8}$ | $\frac{15}{16}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Per Pound | \$0.75 | .75 | .75 | .75 | .75 | .75 | .75 |
| Size, Inches | $\frac{11}{16}$ | $\frac{3}{4}$ | $\frac{13}{16}$ | $\frac{7}{8}$ | $\frac{15}{16}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Per Pound | \$0.75 | .75 | .83 | .83 | .83 | .83 | .83 |
| Size, Inches | $\frac{3}{4}$ | $\frac{13}{16}$ | $\frac{7}{8}$ | $\frac{15}{16}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Per Pound | \$0.90 | 1.05 | 1.20 | 1.45 | 1.80 | 3.00 | |

BRAZED BRASS TUBING



No. 18 B. & S. Gauge (.0403)

12 ft. Lengths.

| | | | | | | |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Outside Diam., Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Ad. Over Base, Per Lb. | \$0.55 | .25 | .10 | .04 | .02 | .01 |

| | | | | | | |
|--------------------------|---------------|---|-----------------|-----------------|-----------------|------|
| Outside Diam., Inches | $\frac{3}{4}$ | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Ad. Over Base, Per Pound | | | | | | Base |

Base Price on Application, with Specifications.

SEAMLESS COPPER TUBING

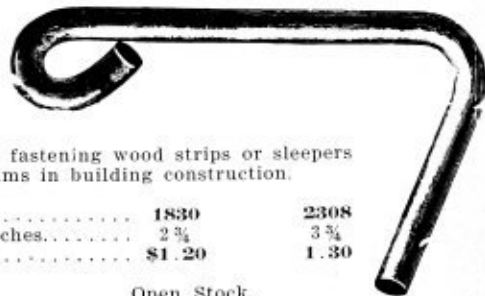


Made of Annealed Seamless Copper. Can be bent in any direction without fear of breaking; very flexible.

Cut to Any Length

| | | | | |
|----------------------------|---------------|---------------|---------------|---------------|
| Outside Diameter, Inches | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Inside Diameter, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Feet Per Lb. Estimated Wt. | 12 | 9 | 7 | 4 |
| Per Pound | \$0.68 | .65 | .63 | .62 |

SLEEPER HOOKS



Used for fastening wood strips or sleepers to iron beams in building construction.

| | | |
|----------------|-----------------|-----------------|
| Nos. | 1830 | 2308 |
| Length, Inches | 2 $\frac{3}{4}$ | 3 $\frac{3}{4}$ |
| Per Gross | \$1.20 | 1.30 |

Open Stock.

WALL TIES
WHALEBONE

Galvanized Sheet Steel

For binding two courses of brick or fastening brick veneer walls to the sheathing.

| | |
|--------------|-------------------|
| No. | 1 |
| Size, Inches | $\frac{3}{8}$ x 7 |
| Per 1000 | \$4.00 |



PREPARED ROOFING

RU-BER-OID SMOOTH

Tale Finish, Gray

The original ready-to-lay roofing. Cost more than ordinary prepared roofing but wears longer.

Veined surface with fine tale finish.

36 in. Wide

Put up ready to lay, in rolls of 108 square feet. Will cover 100 square feet. Complete with large head sherardized nails, lap cement and directions for laying inside of roll. 8 square feet allowed for laps per square.

Per Roll

Medium—Weight Per Roll 45 Lbs. . . . \$4.10

Heavy—Weight Per Roll 55 Lbs. . . . 4.90

Extra—Weight Per Roll 65 Lbs. . . . 5.70

Note—Packed with Ru-ber-oid Lap Fasteners at 10¢ Per Square Extra.

STAREX SMOOTH

Tale Finish

Veined surface with fine tale finish.

36 in. Wide

Put up ready to lay, in rolls of 108 square feet. Will cover 100 square feet. Complete with large head sherardized nails, lap cement and directions for laying inside of roll. 8 square feet allowed for laps per square.

Per Roll

Light—Weight Per Roll 35 Lbs. . . . \$2.40

Medium—Weight Per Roll 45 Lbs. . . . 2.90

Heavy—Weight Per Roll 55 Lbs. . . . 3.40

Note—Packed with Ru-ber-oid Lap Fasteners at 34¢ Per Square Extra.



WIGWAM

Gray, Tale Finish

A good grade of smooth, veined surface roofing, suitable for all temporary structures and on some permanent ones of inexpensive construction.

36 in. Wide

Put up ready to lay, in rolls of 108 square feet. Will cover 100 square feet. Complete with large head nails, lap cement and directions for laying inside of roll.

Per Roll

Light—Weight Per Roll 35 Lbs. . . . \$2.20

Medium—Weight Per Roll 45 Lbs. . . . 2.60

Heavy—Weight Per Roll 55 Lbs. . . . 3.10



DEADENING FELT

RU-BER-OID



36 in. Wide

High Grade, Unsaturated Felt. Per 100 Lbs.

No. 1—1 Lb. Per Square Yard. . . . \$ Market

No. 2—1½ Lb. Per Square Yard. . . . Market

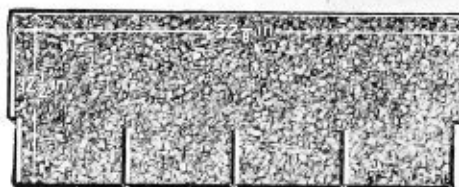
50 Square Yards in a Roll.

SHINGLES

SQUARE-TAB STRIP SHINGLES

RU-BER-OID

Designed for those who prefer the effect resulting from individual shingles at a saving of 50 per cent in labor and nails, resulting from laying four shingles at a time.



Slate Surfaced

12½ in. Wide, 36 in. Long.

100 Strips Per Square, Each Strip 12½x36 in., Composed of 4 Square Tabs.

Per Square

No. 12½ G—Green, 3 Bundles to a Square. . . . \$12.50

No. 12½ R—Red, 3 Bundles to a Square. . . . 12.50

No. 12½ B—Steel Blue, 3 Bundles to a Square. . . . 12.50

Weight Per Square 235 to 245 Pounds.



Slate Surfaced

10 in. Wide, 36 in. Long.

100 Strips Per Square, Each Strip 10x36 in., Composed of 4 Square Tabs.

Per Square

No. 10 G—Green, 2 Bundles to a Square. . . . \$10.00

No. 10 R—Red, 2 Bundles to a Square. . . . 10.00

No. 10 B—Steel Blue, 2 Bundles to a Square. . . . 10.00

Weight Per Square 185 to 195 Pounds.

Ruberoid Square Tab Strip Shingles are made from the same high grade felt, saturant and coating that have proven the best in Ruberoid Roof Coverings.

RED SHEATHING



36 in. Wide

Popular Priced Good Unsaturated Paper, Sized with Rosin.

Nos. 20 30 40

Approx. Weight 500 Sq. Ft., Lbs. . . . 20 30 40

Per 100 Lbs. Market

TARRED SLATERS FELT



36 in. Wide

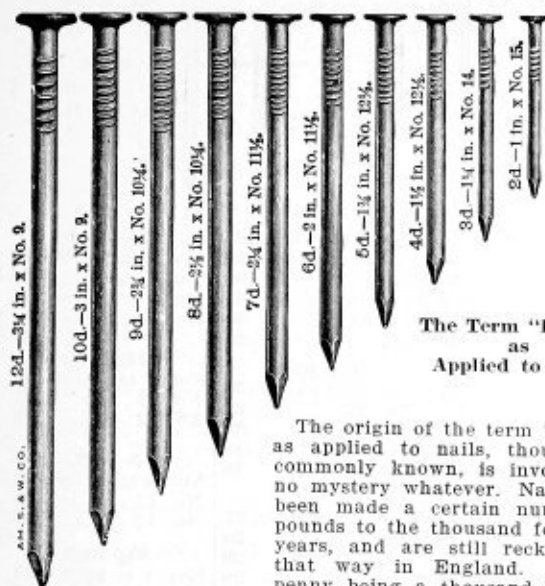
Felt Saturated with Coal Tar, No Fixtures.

Per 100 Lbs.

No. 30SF—About 30 Lbs. Per Roll. . . . Market

500 Square Feet in a Roll.

STEEL WIRE NAILS



The Term "Penny"
as
Applied to Nails

The origin of the term "penny" as applied to nails, though not commonly known, is involved in no mystery whatever. Nails have been made a certain number of pounds to the thousand for many years, and are still reckoned in that way in England. A ten-penny being a thousand nails to

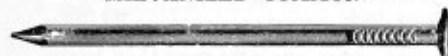
ten pounds; a six-penny a thousand nails to six pounds; a twenty penny weighing twenty pounds to the thousand, and, in ordering, buyers call for the three-pound, six-pound and ten-pound variety, etc., until by the Englishman's abbreviation of "pun" for "pound," it has been made to stand for penny, instead of pound, as originally intended.

BRIGHT COMMON

| Size | Length Inches | Gauge Number | Average No. to Lb. | Advance Over Base |
|------|---------------|--------------|--------------------|-------------------|
| 2d | 1 | 15 | 876 | \$1.45 |
| 3d | 1 ¼ | 14 | 568 | 1.15 |
| 4d | 1 ½ | 12 ½ | 316 | .80 |
| 5d | 1 ¾ | 12 ½ | 271 | .75 |
| 6d | 2 | 11 ½ | 181 | .60 |
| 7d | 2 ¼ | 11 ½ | 161 | .55 |
| 8d | 2 ½ | 10 ¼ | 106 | .30 |
| 9d | 2 ¾ | 10 ¼ | 96 | .30 |
| 10d | 3 | 9 | 69 | .20 |
| 12d | 3 ¼ | 9 | 63 | .15 |
| 16d | 3 ½ | 8 | 49 | .10 |
| 20d | 4 | 6 | 31 | Base |
| 30d | 4 ½ | 5 | 24 | Base |
| 40d | 5 | 4 | 18 | Base |
| 50d | 5 ½ | 3 | 14 | Base |
| 60d | 6 | 2 | 11 | Base |

One Hundred Pounds in a Keg.

GALVANIZED COMMON



8d.—2½ inch x No. 10¼

| Size | Length Inches | Gauge Number | Approx. No. to Lb. | Advance Over Base |
|------|---------------|--------------|--------------------|-------------------|
| 4d | 1 ½ | 12 ½ | 316 | \$.... |
| 5d | 1 ¾ | 12 ½ | 271 | .... |
| 6d | 2 | 11 ½ | 181 | .... |
| 7d | 2 ¼ | 11 ½ | 161 | .... |
| 8d | 2 ½ | 10 ¼ | 106 | .... |
| 9d | 2 ¾ | 10 ¼ | 96 | .... |
| 10d | 3 | 9 | 69 | .... |
| 20d | 4 | 6 | 31 | .... |

One Hundred Pounds in a Keg.

SMOOTH BOX AND SIDING



| Size | Length Inches | Gauge Number | Average No. to Lb. | Advance Over Base |
|------|---------------|--------------|--------------------|-------------------|
| 2d | 1 | 15 ½ | 1010 | \$1.65 |
| 3d | 1 ¼ | 14 ½ | 635 | 1.30 |
| 4d | 1 ½ | 14 | 473 | 1.05 |
| 5d | 1 ¾ | 14 | 406 | 1.00 |
| 6d | 2 | 12 ½ | 236 | .70 |
| 7d | 2 ¼ | 12 ½ | 210 | .65 |
| 8d | 2 ½ | 11 ½ | 145 | .45 |
| 9d | 2 ¾ | 11 ½ | 132 | .45 |
| 10d | 3 | 10 ½ | 94 | .30 |
| 12d | 3 ¼ | 10 ½ | 88 | .25 |
| 16d | 3 ½ | 10 | 71 | .15 |
| 20d | 4 | 9 | 52 | .05 |

FENCE



| Size | Length Inches | Gauge No. | Diam. Head, In. | Av. No. to Lb. | Advance Over Base |
|------|---------------|-----------|-----------------|----------------|-------------------|
| 5d | 1 ¾ | 10 | ¾ | 142 | \$0.50 |
| 6d | 2 | 10 | ¾ | 124 | .45 |
| 7d | 2 ¼ | 9 | ¾ | 92 | .35 |
| 8d | 2 ½ | 9 | ¾ | 82 | .25 |
| 9d | 2 ¾ | 8 | ¾ | 62 | .25 |
| 10d | 3 | 7 | ¾ | 50 | .20 |

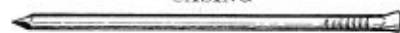
FLOORING BRADS



32 Degree Countersunk

| Size | Length Inches | Gauge No. | Diam. Head, In. | Av. No. to Lb. | Advance Over Base |
|------|---------------|-----------|-----------------|----------------|-------------------|
| 6d | 2 | 11 | 6 | 157 | \$0.55 |
| 7d | 2 ¼ | 11 | 6 | 139 | .50 |
| 8d | 2 ½ | 10 | 5 | 99 | .35 |
| 9d | 2 ¾ | 10 | 5 | 90 | .35 |
| 10d | 3 | 9 | 4 | 69 | .25 |

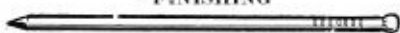
CASING



32 Degree Countersunk

| Size | Length Inches | Gauge No. | Diam. Head, In. | Av. No. to Lb. | Advance Over Base |
|------|---------------|-----------|-----------------|----------------|-------------------|
| 2d | 1 | 15 ½ | 12 ½ | 1010 | \$1.70 |
| 3d | 1 ¼ | 14 ½ | 11 ½ | 635 | 1.35 |
| 4d | 1 ½ | 14 | 11 | 473 | 1.10 |
| 5d | 1 ¾ | 14 | 11 | 406 | 1.05 |
| 6d | 2 | 12 ½ | 9 ½ | 236 | .75 |
| 7d | 2 ¼ | 12 ½ | 9 ½ | 210 | .70 |
| 8d | 2 ½ | 11 ½ | 8 ½ | 145 | .50 |
| 9d | 2 ¾ | 11 ½ | 8 ½ | 132 | .50 |
| 10d | 3 | 10 ½ | 7 ½ | 91 | .35 |
| 12d | 3 ¼ | 10 ½ | 7 ½ | 87 | .30 |
| 16d | 3 ½ | 10 | 7 | 71 | .20 |

*FINISHING



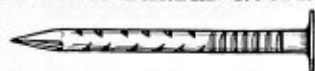
| Size | Length Inches | Gauge No. | Diam. Head, In. | Av. No. to Lb. | Advance Over Base |
|------|---------------|-----------|-----------------|----------------|-------------------|
| 2d | 1 | 16 ½ | 13 ½ | 1351 | \$2.00 |
| 3d | 1 ¼ | 15 ½ | 12 ½ | 807 | 1.55 |
| 4d | 1 ½ | 15 | 12 | 584 | 1.25 |
| 5d | 1 ¾ | 15 | 12 | 500 | 1.20 |
| 6d | 2 | 13 | 10 | 309 | 1.00 |
| 7d | 2 ¼ | 13 | 10 | 238 | .70 |
| 8d | 2 ½ | 12 ½ | 9 ½ | 189 | .60 |
| 9d | 2 ¾ | 12 ½ | 9 ½ | 172 | .60 |
| 10d | 3 | 11 ½ | 8 ½ | 121 | .45 |
| 12d | 3 ¼ | 11 ½ | 8 ½ | 113 | .40 |
| 16d | 3 ½ | 11 | 8 | 90 | .25 |
| 20d | 4 | 10 | 7 | 62 | .15 |

All Above, One Hundred Pounds in a Keg.

*Finishing Nails—Sizes 2d to 10d are also carried in stock in 25 lb. Boxes. Prices on Application.

ROOFING NAILS

STANDARD BARBED ROOFING



Regular Head, Bright

| Size | Length, Inches | Gauge Nos. | Av. No. to Lb. | Advance Over Base |
|----------------|----------------|------------|----------------|-------------------|
| $\frac{3}{4}$ | $\frac{3}{4}$ | 13 | 714 | \$1.55 |
| $\frac{7}{8}$ | $\frac{7}{8}$ | 12 | 469 | 1.30 |
| 1 | 1 | 12 | 411 | 1.20 |
| $1\frac{1}{8}$ | $1\frac{1}{8}$ | 12 | 365 | 1.10 |
| $1\frac{1}{4}$ | $1\frac{1}{4}$ | 11 | 251 | .95 |
| $1\frac{3}{8}$ | $1\frac{3}{8}$ | 11 | 230 | .90 |
| $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10 | 176 | .80 |
| $1\frac{3}{4}$ | $1\frac{3}{4}$ | 10 | 151 | .75 |
| 2 | 2 | 9 | 103 | .65 |

Regular Head, Galvanized

| Size | Length, Inches | Gauge Nos. | Av. No. to Lb. | Advance Over Base |
|---------------|----------------|------------|----------------|-------------------|
| $\frac{7}{8}$ | $\frac{7}{8}$ | 12 | 469 | .... |
| 1 | 1 | 12 | 411 | .... |

LARGE HEAD BARBED ROOFING



Flat Head

 $\frac{1}{2}$ in. Head, No. 8 Gauge

| | | | | |
|------------------------------|----------------|----------------|----------------|----------------|
| Length, Inches | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ |
| Av. No. to Lb. | 205 | 179 | 158 | 142 |
| Bright—Advance Over Base | \$1.65 | 1.55 | 1.45 | 1.40 |
| Galvanized—Advance Over Base | .... | .... | .... | .... |
| Length, Inches | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | 2 |
| Av. No. to Lb. | 128 | 108 | 93 | 80 |
| Bright—Advance Over Base | \$1.35 | 1.30 | 1.25 | 1.20 |
| Galvanized—Advance Over Base | .... | .... | .... | .... |

One Hundred Pounds in a Keg.

IDEAL BARBED ROOFING



Sealing ring under the head makes a watertight joint and provides a firm grip against wind pressure. Checkered head prevents slipping of the hammer. The long sharp point makes it easy to stick nail in place.

Copper Steel, $\frac{1}{2}$ in. Diameter Head

Bright Finish or Hot Galvanized (Zinc Coated)

| | | |
|-----------------------------|---------------|-------|
| Length, Inches | $\frac{7}{8}$ | 1 |
| Wire Gauge, Nos. | 11 | 11 |
| No. in a Pound | 210 | 195 |
| Bright—Per 100 Lbs. | \$ 8.00 | 7.50 |
| Hot Galvanized—Per 100 Lbs. | 11.00 | 10.50 |

One Hundred Pounds in a Keg.

SIMPLEX



Shank extends through the head. Hammer does not glance as the blow falls directly on the head of the nail shank, not on the curved dome.

Four times the head area of large headed nails. One-piece, head cannot loosen.

Thickness No. 12 Gauge.

Per 100 Pounds

Length 1 Inch—Diameter Head 1 in., 115 Nails to the Lb. \$15.00

50 and 100 Pound Kegs.

TIN ROOFING CAPS



Heavy, with Nail Holes

Per Pound

No. 1— $1\frac{1}{4}$ in. Diameter, \$0.12

STEEL WIRE SPIKES

FLAT HEAD, DIAMOND POINT



| | | | | | |
|-------------------------|---------------|---------------|----------------|---------------|----------------|
| Length, Inches | 7 | 8 | 9 | 10 | 12 |
| Thickness, Inches | $\frac{7}{8}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Approx. Number to Pound | 7 | 4 | $3\frac{1}{2}$ | 3 | $2\frac{1}{2}$ |
| Advance Over Base | \$0.10 | .10 | .10 | .25 | .25 |

One Hundred Pounds in a Keg.

HINGE NAILS

WIRE, DIAMOND POINT



Countersunk Head.



Oval Head.

Note—In Ordering Hinge Nails Specify whether Oval or Countersunk Head, Light or Heavy Annealed or Bright.

LIGHT HINGE, BRIGHT

| Size | 4d | 6d | 8d | 10d | 12d | 16d | 20d |
|----------------------|-----------------|-----------------|-----------------|---------------|----------------|----------------|---------------|
| Length, Inches | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ | 3 | $3\frac{1}{4}$ | $3\frac{1}{2}$ | 4 |
| Gauge Nos. | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |
| Diameter Head, In. | $\frac{13}{16}$ | $\frac{13}{16}$ | $\frac{13}{16}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Degree Countersunk | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Average No. to a Lb. | 82 | 62 | 50 | 25 | 23 | 22 | 19 |
| Advance Over Base | \$1.00 | .90 | .75 | .65 | .60 | .55 | .50 |

Annealed Nails \$0.25 per 100 Pounds Advance.

HEAVY HINGE, BRIGHT

| Size | 4d | 6d | 8d | 10d | 12d | 16d | 20d |
|----------------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|
| Length, Inches | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ | 3 | $3\frac{1}{4}$ | $3\frac{1}{2}$ | 4 |
| Gauge Nos. | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{3}{8}$ |
| Diameter Head, In. | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Degree Countersunk | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Average No. to a Lb. | 50 | 38 | 30 | 12 | 11 | 10 | 9 |
| Advance Over Base | \$0.95 | .85 | .70 | .65 | .60 | .55 | .50 |

Annealed Nails \$0.25 per 100 Pounds Advance.

CEMENT COATED WIRE NAILS

Base Price.....Market
SINKERS

The best all-around nails made for either hand or machine driving. For use in all styles of wooden shipping packages and for all the every-day uses of nails. Heads cannot break or pull off.

| Size | 3d | 4d | 6d | 8d | 10d |
|-----------------------|--------|-------|-------|--------|-------|
| Length, Inches | 1 1/4 | 1 3/4 | 1 7/8 | 2 1/4 | 2 3/4 |
| Gauge Nos. | 15 1/2 | 14 | 13 | 11 1/2 | 11 |
| No. of Nails in Pound | 848 | 488 | 275 | 142 | 104 |
| Advance Over Base | | | | | |
| Per 100 Lbs. | \$1.90 | 1.55 | 1.15 | .75 | .65 |

EGG CASE



Undoubtedly the only perfect nails for egg cases. Endorsed by carriers and have every feature desirable for the use intended.

| Size | 3d | 4d |
|---------------------------------|--------|-------|
| Length, Inches | 1 1/4 | 1 3/4 |
| Gauge Nos. | 15 | 14 |
| Number of Nails in Pound | 738 | 435 |
| Advance Over Base, Per 100 Lbs. | \$2.15 | 1.80 |

STEEL CUT NAILS

Base Price.....Market
SHINGLE

| Size | 4d |
|------------------------------|--------|
| Length, Inches | 1 1/2 |
| Advance Over Base | \$0.80 |
| One Hundred Pounds in a Keg. | |

FLOORING



| Size | 8d |
|------------------------------|--------|
| Length, Inches | 2 1/2 |
| Advance Over Base | \$0.60 |
| One Hundred Pounds in a Keg. | |

CLINCH



| | | | | |
|-----------------------------|---------------|-------------|-------------|------------|
| Size | 4d | 5d | 6d | 7d |
| Length, Inches | 1 1/2 | 1 3/4 | 2 | 2 1/4 |
| Approximate No. to Lb. | 180 | 140 | 95 | 74 |
| Advance Over Base..... | \$1.20 | 1.15 | 1.00 | .95 |
| Size | 8d | 9d | 10d | |
| Length, Inches | 2 1/2 | 2 3/4 | 3 | |
| Approximate No. to Lb. | 62 | 53 | 46 | |
| Advance Over Base..... | \$0.80 | .80 | .70 | |

One Hundred Pounds in a Keg.

COPPER WIRE NAILS



| 5 Pound Boxes | | | | | |
|----------------|--------|-------|-------|-------|-----|
| Size | 2d | 3d | 4d | 5d | 6d |
| Length, Inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Per Pound | \$0.40 | .40 | .40 | .40 | .40 |
| Size | 8d | 10d | 16d | 20d | |
| Length, Inches | 2 1/2 | 3 | 3 1/2 | 4 | |
| Per Pound | \$0.40 | .40 | .40 | .40 | .40 |

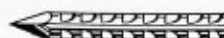
COPPER SLATING NAILS



Large Heads, 5 Pound Boxes

| Size | 2d | 3d | 4d |
|----------------|--------|-------|-------|
| Length, Inches | 1 | 1 1/4 | 1 1/2 |
| Per Pound | \$0.40 | .40 | .40 |

BARBED DOWEL PINS



No. 8 Gauge

| Length, Inches | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 |
|----------------------|--------|-------|-------|-------|-------|
| Average No. in Pound | 290 | 250 | 210 | 190 | 165 |
| Advance Over Base | \$1.75 | 1.50 | 1.35 | 1.25 | 1.15 |
| Length, Inches | 1 1/4 | 1 1/2 | 1 3/4 | 1 7/8 | 2 |
| Average No. in Pound | 150 | 130 | 120 | 110 | 100 |
| Advance Over Base | \$1.10 | 1.05 | 1.00 | .95 | .90 |

No. 11 Gauge

| Length, Inches | 3/4 | 1 |
|------------------------------|--------|------|
| Average Number in Pound | 480 | 349 |
| Advance Over Base | \$1.90 | 1.65 |
| One Hundred Pounds in a Keg. | | |

HOOP NAILS OR FASTENERS

FLANGE



Blued

Per Pound

No. 2—10 1/2 Gauge, 1/2 in. Long, 308 to a Lb. \$0.11
One Hundred Pounds in a Keg.

HORSESHOE NAILS

LEADER

Best American Stock, Well Formed, Medium Quality.



No. 7

| Nos. | City Head | 7 | 8 | 9 |
|---------------------------|-----------|------|------|------|
| Length, Inches | 2.20 | 2.37 | 2.58 | 2.79 |
| Per Pound | \$0.23 | 1.22 | 1.13 | 1.04 |
| Five Pounds in a Package. | | | | |

MASONRY NAILS

PARKER-KALON HARDENED



The only nail expressly designed for making fastenings to brick, mortar, concrete, etc.

They offer a simple, inexpensive yet thoroughly satisfactory means of making fastenings to all kinds of masonry.

Will be found easier, quicker and cheaper to use than expansion bolts, lead anchors and plugs, hooks, spikes and other devices now being used.

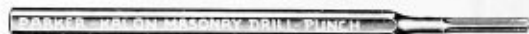
Used by Sheet Metal Workers, Carpenters, Electricians, Plumbers, Sign Hangers, etc.

Simply necessary to hammer the nail into the brick, concrete or masonry—a drill is necessary only if material is unusually hard and tough.

Electro Galvanized Finish

| Size, Inches | 1/2 x 1 | 1/4 x 1 1/2 | 1/4 x 2 |
|-----------------------|---------|-------------|---------|
| Per Box of 100 | \$0.90 | 1.65 | 2.00 |
| One Hundred in a Box. | | | |

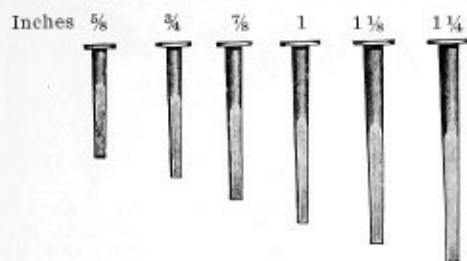
MASONRY DRILL PUNCH



Especially designed for making holes in brick, mortar, etc., where it is necessary, in order to start Hardened Masonry Nails.

| Size, Inches | 3/8 | 1/2 |
|--------------|--------|-----|
| Each | \$0.60 | .60 |

CLOUT NAILS

1 Lb. Packages
Blued

| | | | | | | |
|----------------|--------|-------|-------|-----|-------|-------|
| Length, Inches | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 |
| Per Pound | \$0.39 | .38 | .36 | .35 | | |
| Length, Inches | 1 | 1 1/4 | 1 1/2 | 2 | | |
| Per Pound | \$0.34 | .33 | .32 | .30 | | |

TRUNK NAILS

1 Lb. Packages
Tinned

| | | | | | | |
|----------------|--------|-------|-------|-----|---|-------|
| Length, Inches | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 |
| Per Pound | \$0.41 | .40 | .39 | .38 | | |
| Length, Inches | 1 | 1 1/4 | 1 1/2 | 2 | | |
| Per Pound | \$0.37 | .37 | .36 | .35 | | |

SHOE NAILS

"HOLDFAST" WIRE



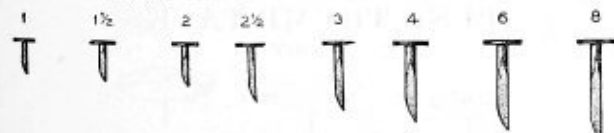
The only nail made with that peculiar oval, awl shaped, clinching point, which turns back into the insole, making a secure fastening.

No. 16 Bright Wire

1 Lb. Package.

| | |
|----------------|-------------------------------------|
| Length, Inches | (Sizes Shown Above Cut), 3/8 to 7/8 |
| Per Pound | \$0.34 |

AMERICAN CUT TACKS



Blued, 1/8 Lb. Papers

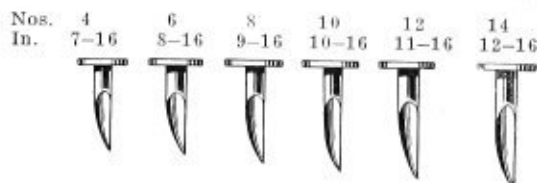
| | | | | | |
|------------------|--------|-------|------|-------|-----|
| Size Nos. | 1 | 1 1/2 | 2 | 2 1/2 | 3 |
| Per Dozen Papers | \$1.35 | 1.20 | 1.05 | .95 | .80 |

Blued, 1/4 Lb. Papers

| | | | |
|------------------|--------|------|------|
| Size Nos. | 4 | 6 | 8 |
| Per Dozen Papers | \$1.40 | 1.35 | 1.30 |

One Dozen Papers in a Package.

AMERICAN CARPET TACKS



Flat Head, Blued

1/4 Lb. Papers

| | | | | | | |
|-----------------|--------|------|------|------|------|------|
| Size Nos. | 4 | 6 | 8 | 10 | 12 | 14 |
| Per Doz. Papers | \$1.33 | 1.27 | 1.25 | 1.20 | 1.20 | 1.15 |

One Dozen Papers in a Package.

1/2 Lb. Papers

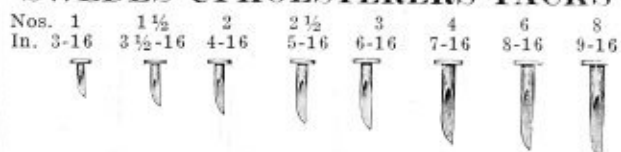
| | | | | |
|-----------|--------|-----|-----|-----|
| Size Nos. | 10 | 12 | 14 | 16 |
| Per Pound | \$0.37 | .36 | .35 | .35 |

One Dozen Papers in a Package.

25 Lb. Boxes

| | | | | | | |
|--------------|---------|-------|-------|-------|-------|-------|
| Size Nos. | 4 | 6 | 8 | 10 | 12 | 14 |
| Per 100 Lbs. | \$39.10 | 37.30 | 35.60 | 35.05 | 33.90 | 33.35 |

SWEDES UPHOLSTERERS TACKS



| | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nos. | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| In. | 10-16 | 11-16 | 12-16 | 13-16 | 14-16 | 15-16 | 16-16 | 18-16 |



Blued

1/8 Lb. Papers

| | | | | | |
|------------------|--------|-------|------|-------|-----|
| Size Nos. | 1 | 1 1/2 | 2 | 2 1/2 | 3 |
| Per Dozen Papers | \$1.25 | 1.10 | 1.05 | .95 | .80 |

1/4 Lb. Papers

| | | | | | |
|------------------|--------|------|------|------|------|
| Size Nos. | 3 | 4 | 6 | 8 | 10 |
| Per Dozen Papers | \$1.50 | 1.40 | 1.35 | 1.26 | 1.22 |

1/2 Lb. Papers

| | | | | | | |
|-----------|--------|-----|-----|-----|-----|-----|
| Size Nos. | 10 | 12 | 14 | 16 | 18 | 20 |
| Per Pound | \$0.37 | .36 | .35 | .35 | .35 | .35 |

Above, One Dozen Papers in a Package.

25 Lb. Boxes

| | | | | | |
|----------------|---------|-------|-------|-------|-------|
| Size Nos. | 2 | 2 1/2 | 3 | 4 | 6 |
| Per 100 Pounds | \$58.20 | 54.05 | 44.20 | 41.70 | 39.40 |
| Size Nos. | 8 | 10 | 12 | 14 | |
| Per 100 Pounds | \$37.15 | 35.60 | 33.90 | 33.35 | |

RAILROAD OR BILL POSTERS TACKS



Blued

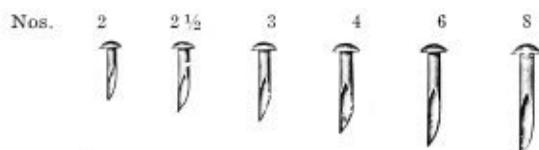
1 Lb. Packages

| | | | | | | | |
|-------------|--------|------|------|------|------|-------|-------|
| Nos. | 2 1/2 | 3 | 4 | 6 | 8 | 10 | 12 |
| Length, In. | 5/16 | 6/16 | 7/16 | 8/16 | 9/16 | 10/16 | 11/16 |
| Per Pound | \$0.40 | .37 | .34 | .32 | .32 | .31 | .31 |

25 Lb. Boxes

| | | | | |
|----------------|---------|-------|-------|-------|
| Nos. | 2 1/2 | 3 | 4 | 6 |
| Per 100 Pounds | \$44.85 | 42.35 | 39.60 | 37.20 |
| Nos. | 8 | 10 | 12 | |
| Per 100 Pounds | \$36.90 | 36.60 | 36.25 | |

GIMP TACKS



Blued

1/8 Lb. Papers

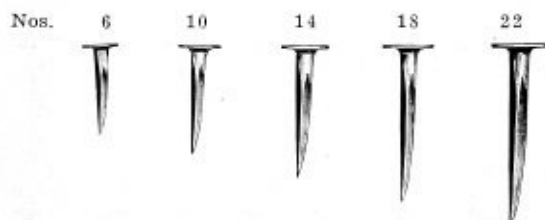
| | | | | | | |
|------------------|--------|-------|------|------|------|---|
| Size, Nos. | 2 | 2 1/2 | 3 | 4 | 6 | 8 |
| Length, Inches | 7/32 | 4/16 | 5/16 | 7/16 | 8/16 | |
| Per Dozen Papers | \$1.25 | 1.20 | 1.10 | .90 | .85 | |

1/4 Lb. Papers

| | | | |
|------------------|--------|------|-------|
| Size, Nos. | 4 | 6 | 8 |
| Length, Inches | 8/16 | 9/16 | 10/16 |
| Per Dozen Papers | \$1.50 | 1.30 | 1.30 |

One Dozen Papers in a Package.

COPPER TACKS



Cut

Flat Head, in 1 Lb. Papers

| | | | | | |
|----------------|--------|-------|-------|-------|------|
| Size, Nos. | 2 | 2 1/2 | 3 | 4 | 6 |
| Length, Inches | 4/16 | 5/16 | 6/16 | 7/16 | 8/16 |
| Per Pound | \$0.70 | .65 | .60 | .60 | .60 |
| Size, Nos. | 9 | 10 | 14 | 18 | 22 |
| Length, Inches | 9/16 | 10/16 | 12/16 | 14/16 | 1 |
| Per Pound | \$0.60 | .60 | .60 | .60 | .60 |

UPHOLSTERY NAILS



Brass, Gilt Finish

Shank 3/16 inch.

| | | | |
|------------------|------------------|-----|------|
| Nos. | 43 | 42 | 41 |
| In Boxes of 50 | Per 1000, \$0.75 | .95 | 1.15 |
| In Boxes of 100 | Per 1000, .70 | .90 | 1.10 |
| In Boxes of 1000 | Per 1000, .60 | .80 | 1.00 |

Shank 3/8 inch.

Per 1000

No. 143—In Boxes of 1000.....\$0.60

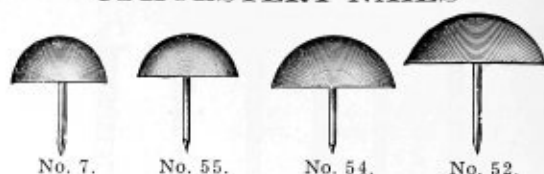


Brass

In Boxes of 1000.

| | | | | | | |
|------------|--------|--------|------|--------|--------|--------|
| Nos. | 3 | 3 | 9 | 9 | 19 1/2 | 19 1/2 |
| Shank, In. | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| Finish | Gilt | Nickel | Gilt | Nickel | Gilt | Nickel |
| Per 1000 | \$1.50 | 1.90 | 1.50 | 1.75 | .65 | .85 |

UPHOLSTERY NAILS



No. 7.

No. 55.

No. 54.

No. 52.

Brass

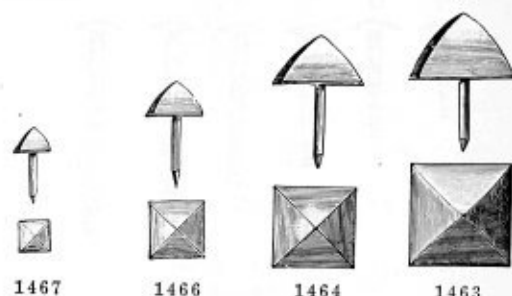
| | | | | | | | |
|-------------|--------|--------|------|------|------|------|--------|
| Nos. | 7 | 7 | 55 | 55 | 54 | 54 | 52 |
| Finish | Gilt | Nickel | Gilt | Ant. | Gilt | Ant. | Nickel |
| No. in Pkg. | 1000 | 1000 | 1000 | 1000 | 500 | 500 | 500 |
| Per 1000 | \$3.15 | 5.35 | 4.60 | 4.95 | 5.25 | 5.65 | 9.90 |



No. 50

Brass

| | | |
|-------------|---------|---------|
| Nos. | 50 | 50 |
| Finish | Gilt | Antique |
| No. in Pkg. | 250 | 250 |
| Per 1000 | \$10.15 | 10.70 |



1467

1466

1464

1463

Brass

| | | | | |
|----------------|-----------|-----------|---------|---------|
| Nos. | 1467 | 1466 | 1464 | 1463 |
| Finish | Fire Gilt | Fire Gilt | Natural | Natural |
| No. in Package | 1000 | 1000 | 500 | 250 |
| Per 1000 | \$3.25 | 4.75 | 7.05 | 9.55 |



1532

Brass

| | | |
|-------------|-----------|---------|
| Nos. | 1532 | 1532 |
| Finish | Fire Gilt | Antique |
| In Pkgs. of | 500 | 500 |
| Per 1000 | \$5.75 | 4.00 |

FURNITURE NAILS
METALENE

These nails have a broad seat at the base of head which prevents sharp edge from cutting the gimp.

No. 220

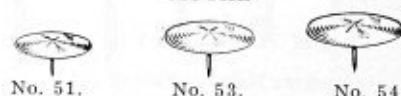
| | | | | |
|------------|--------|------|-------|------|
| Color Nos. | 3 | 7 | 8 | 14 |
| Color | Maroon | Tan | Green | Red |
| Per 1000 | \$1.95 | 1.95 | 1.95 | 1.95 |



No. 220

PUSH THUMB TACKS

MOORE



No. 51.

No. 53.

No. 54.

Nickel Steel

| | | | |
|------|------------|---------------------|--------|
| Nos. | 51—3/8 in. | 12 Tacks to a Block | \$0.60 |
| Nos. | 52—3/8 in. | 10 Tacks to a Block | .60 |
| Nos. | 53—1/2 in. | 8 Tacks to a Block | .60 |
| Nos. | 54—3/8 in. | 6 Tacks to a Block | .60 |

One Dozen Blocks to a Carton.

FENCE STAPLES



1 1/4 Inch.

Galvanized, No. 9 Wire

| | | | | |
|-------------------|--------|-------|-------|-------|
| Size, Inches..... | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| Number in Lb.... | 108 | 96 | 87 | 72 |
| Per Pound..... | \$0.07 | .07 | .07 | .07 |

100 Pounds in a Keg.

POULTRY NETTING STAPLES



No. 14 Gauge Wire, Galvanized

| | | | |
|---------------------------|--------|-----|-----|
| Length, Inches..... | 3/4 | 7/8 | 1 |
| Number in Lb..... | 480 | 416 | 352 |
| 1 Lb. Pkgs.....Per Lb., | \$0.13 | .13 | .13 |
| 10 Lb. Pkgs.....Per Lb., | .11 | .11 | .11 |
| 100 Lb. Pkgs.....Per Lb., | .10 | .10 | .10 |

WROUGHT STAPLES



No. 976—Wrought Steel, Bright

| | | | | | |
|------------------------|--------|-------|-------|-------|-------|
| Size, Inches..... | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Weight Per Gross, Lbs. | 4 | 1 | 1 1/2 | 1 3/4 | 2 1/2 |
| Per Gross..... | \$1.20 | 1.20 | 1.25 | 1.50 | 1.70 |

| | | | | |
|------------------------|--------|-------|-------|------|
| Size, Inches..... | 2 1/4 | 2 1/2 | 2 3/4 | 3 |
| Weight Per Gross, Lbs. | 3 1/4 | 4 1/2 | 5 | 6 |
| Per Gross..... | \$2.00 | 2.35 | 2.65 | 3.20 |

| | | | | |
|------------------------|--------|------|-------|--------|
| Size, Inches..... | 3 1/4 | 4 | 4 1/2 | 5 |
| Weight Per Gross, Lbs. | 9 | 10 | 11 | 14 1/2 |
| Per Gross..... | \$3.70 | 5.25 | 6.50 | 8.00 |

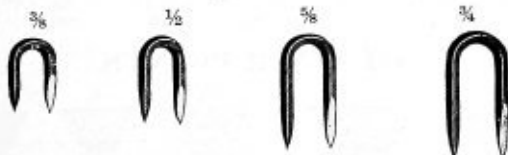
2 1/4 in. and Smaller, One Gross; Others, One-half Gross in a Box.

No. 105—Extra Heavy, Wrought Steel, Bright

| | | | |
|----------------------|--------|-------|------|
| Size, Inches..... | 2 1/2 | 4 | 5 |
| Weight Per Box, Lbs. | 4 | 6 1/4 | 10 |
| Per 100..... | \$2.40 | 5.40 | 7.40 |

2 1/2 in., One Hundred; Others, Fifty in a Box.

ELECTRICIANS STAPLES



No. 65—Coppered, Round Crown

Sharp Pointed Flat Steel Wire.

| | | | | | |
|---------------------|---------|-------|-------|-------|-------|
| Size, Inches..... | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Per 100 Pounds..... | \$42.70 | 41.50 | 39.65 | 37.55 | 37.05 |

Ten Pounds in a Box.

Note—Can also be furnished in 1 pound packages at \$1.00 per 100 lbs. net additional.

INSULATED STAPLES

BLAKE FIBRE



No. 1.

No. 5.

Designed for use on all low voltage circuits of interior wiring, such as telephones, telegraph, messenger call, annunciator, etc.

The fibre insulation of these staples cannot come off in driving.

| | |
|--|----------------|
| No. 1—1/2 in., for Hardwood, for Twisted Pair and Single Wires..... | Per 100 \$0.30 |
| No. 5—5/8 in., for Hardwood, for Twisted 3-Wire and Extra Heavy Pair Wire..... | Per 100 .30 |
| One Hundred in a Package. | |

WIRE CLINCH STAPLES



No. 15—Coppered, Round Crown

Sharp Pointed Flat Steel Wire.

| | | | | | |
|------------------|---------|-------|-------|-------|-------|
| Size, Inches.... | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
| Per 100 Lbs. | \$30.85 | 30.35 | 29.85 | 29.35 | 27.85 |

Ten Pounds in a Box.

BLIND STAPLES



No. 25—18 Gauge, Copper Plated, Barbed

| | | | | |
|---------------------|---------|-------|-------|-------|
| Length, Inches..... | 3/8 | 1/2 | 5/8 | 3/4 |
| Per 100 Pounds..... | \$49.00 | 46.80 | 46.05 | 44.65 |

Ten Pounds in a Box.

BARREL OR HOOP STAPLES

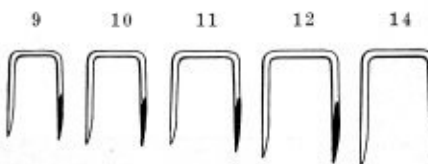


No. 61—Sharp Pointed, Flat Steel Wire, Coppered

| | | | | |
|---------------------|-----------|-----------|-----------|-----------|
| Size, Inches..... | 5/8 x 1/2 | 5/8 x 5/8 | 3/4 x 3/4 | 7/8 x 7/8 |
| Per 100 Pounds..... | \$38.10 | 37.15 | 35.35 | 35.35 |

Ten Pounds in a Box.

DOUBLE POINTED TACKS



1/8 Pound Papers

| | | | | |
|-------------------------------|--------|-------|-------|-------|
| Nos. | 9 | 10 | 11 | 12 |
| Width, Inches..... | 3/32 | 1/4 | 5/32 | 3/16 |
| Length, Inches..... | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 |
| Gauge Nos. | 16 | 16 | 15 | 15 |
| Tinned Per Doz. Papers, | \$0.75 | .70 | .70 | .70 |

Our Stock of Nails, Tacks, Staples, Screws, Bolts and Nut is complete enough to take care of your requirements.

BOX OR CASKET STAPLES



No. 62—Sharp Pointed Flat Steel Wire, Coppered

| | | | |
|----------------------|---------|-------------|-------------|
| Size, Inches | 1x3/4 | 1 1/4 x 7/8 | 1 1/2 x 7/8 |
| Per 100 Pounds | \$36.85 | 35.35 | 33.35 |
| Ten Pounds in a Box. | | | |

FLEXIBLE CLASPS
STANLEY STEEL

Used to securely fasten covers on pails, tubs, buckets, baskets, etc., and to reinforce light crates and boxes. Easily applied and have great holding power.

Steel Wire, Cement Coated

Per Pound

No. 2235—Length 2 3/4 in., 160 in a Lb. \$0.40

CORRUGATED JOINT FASTENERS
WROUGHT STEEL

No. 3306



No. 3320

No. 3306—Plain Edge, Divergent

No. 3320—Saw Edge, Divergent

Per 1000, Boxed.

| Depth, Inches... | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
|------------------|--------|------|------|------|------|------|------|
| No. Corrug's | | | | | | | |
| 2 | \$0.45 | .55 | .60 | .80 | .90 | 1.00 | 1.15 |
| 3 | .60 | .75 | .85 | 1.00 | 1.15 | 1.35 | 1.45 |
| 4 | .75 | .95 | 1.05 | 1.30 | 1.45 | 1.75 | 1.85 |
| 5 | .90 | 1.20 | 1.30 | 1.70 | 1.85 | 2.20 | 2.40 |
| 6 | 1.10 | 1.40 | 1.50 | 1.85 | 2.15 | 2.55 | 2.85 |
| 7 | 1.30 | 1.60 | 1.80 | 2.20 | 2.50 | 3.00 | 3.35 |

Note—In ordering specify Style Number as well as Depth and Number of Corrugations.

BOX STRAPPING
ACME DOT EMBOSSED

The safe arrival of merchandise is insured through the application of the proper type of box straps. It also prevents pilferage, insures package security and reduction in the thickness of container material.



Put up in coils of 300 feet which make handling Acme Box Strapping a convenience and a pleasure.

Flexible Cold Rolled Steel, Lacquered
300 Foot Coils

| | | | | | |
|---------------|--------|------|------|------|------|
| Width, Inches | 1 1/2 | 2 | 3 | 4 | 5 |
| Coils in Case | 20 | 20 | 20 | 10 | 10 |
| Per Coil | \$1.00 | 1.25 | 1.50 | 1.75 | 2.00 |

BRASS ESCUTCHEON PINS



List of April 12, 1923. Price Per Pound

| Wire Ga. No. B.W.G. | Length, Inches | | | | | |
|---------------------------|----------------|--------|--------|--------|--------|--------|
| | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| 10 | ..... | \$0.85 | \$0.80 | \$0.78 | \$0.76 | \$0.75 |
| 12 | \$1.15 | .98 | .93 | .90 | .87 | .85 |
| 14 | 1.25 | 1.05 | 1.00 | .96 | .92 | .88 |
| 15 | 1.35 | 1.15 | 1.07 | 1.00 | .95 | .92 |
| 16 | 1.45 | 1.20 | 1.10 | 1.03 | .99 | .96 |
| 17 | 1.60 | 1.40 | 1.25 | 1.17 | 1.10 | 1.04 |
| 18 | 1.90 | 1.50 | 1.35 | 1.27 | 1.20 | 1.15 |
| 19 | 2.15 | 1.75 | 1.60 | 1.45 | 1.35 | 1.30 |
| 20 | 2.35 | 2.10 | 1.95 | 1.80 | 1.65 | ..... |

| Wire Ga. No. B.W.G. | Length, Inches | | | | |
|---------------------------|----------------|--------|--------|--------|--------|
| | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| 10 | \$0.74 | \$0.72 | \$0.71 | \$0.70 | \$0.69 |
| 12 | .83 | .79 | .77 | .76 | .75 |
| 14 | .85 | .81 | .80 | ..... | ..... |
| 15 | .90 | .86 | .84 | ..... | ..... |
| 16 | .94 | .90 | .88 | ..... | ..... |
| 17 | 1.00 | .96 | .94 | ..... | ..... |
| 18 | 1.10 | ..... | ..... | ..... | ..... |
| 19 | 1.25 | ..... | ..... | ..... | ..... |

One Pound in a Box.

Number of Brass Escutcheon Pins in a Pound

| Wire Ga. No. B.W.G. | Length, Inches | | | | | | | |
|---------------------------|----------------|------|------|------|-------|-------|-------|-------|
| | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 |
| 12 | 720 | 650 | 460 | 416 | 400 | 336 | 272 | 212 |
| 14 | 1312 | 1100 | 950 | 830 | 692 | 600 | 432 | 378 |
| 15 | 1820 | 1376 | 1152 | 960 | 888 | 720 | 576 | 580 |
| 16 | 2240 | 1720 | 1460 | 1275 | 1130 | 980 | 720 | 592 |
| 17 | 2700 | 2076 | 1812 | 1500 | 1185 | 1051 | 928 | 800 |
| 18 | 3175 | 2550 | 2450 | 2200 | 1740 | 1520 | 1216 | 960 |
| 19 | 5140 | 4130 | 3565 | 2900 | ..... | ..... | ..... | ..... |
| 20 | 8419 | 6374 | 5500 | 4155 | ..... | ..... | ..... | ..... |

CURTAIN PINS

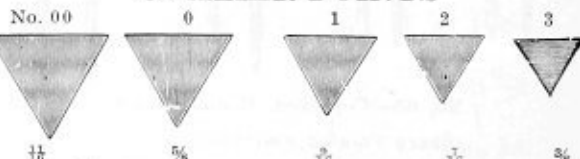


Headless, Brass

1 Pound Packages

| | | | | |
|----------------|--------|-----|-------|-------|
| Wire Nos | 15 | 16 | 15 | 16 |
| Length, Inches | 1 | 1 | 1 1/4 | 1 1/4 |
| Per Pound | \$0.90 | .90 | .90 | .90 |

GLAZIER POINTS



Zinc Plated, Triangular, 1/4 Pound Papers

| | | | | | |
|------------------|--------|-----|-----|-----|-----|
| Nos. | 00 | 0 | 1 | 2 | 3 |
| Per Dozen Papers | \$0.80 | .80 | .80 | .80 | .80 |

Zinc, Triangular, 1/4 Pound Papers

| | | | | | |
|------------------|--------|------|------|------|------|
| Nos. | 00 | 0 | 1 | 2 | 3 |
| Per Dozen Papers | \$1.20 | 1.20 | 1.20 | 1.20 | 1.20 |

MACHINE BOLTS

U. S. THREAD



With Square Heads and Square Nuts. Finished Points

Manufacturers' Standard List Effective September 1, 1923.

Price Per Hundred

| Lgth. In. | Diameter, Inches. | | | | | | | |
|--------------|-------------------|----------------|---------------|----------------|---------------|----------------|---------------|-------|
| | $\frac{1}{4}$ | $\frac{3}{16}$ | $\frac{1}{2}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | 1 |
| 1½ | \$1.70 | 2.00 | 2.40 | 3.70 | 5.50 | 7.70 | 10.50 | 15.10 |
| 2 | 1.80 | 2.15 | 2.60 | 4.00 | 5.90 | 8.25 | 11.20 | 16.00 |
| 2½ | 1.90 | 2.30 | 2.80 | 4.30 | 6.30 | 8.80 | 11.90 | 16.90 |
| 3 | 2.00 | 2.45 | 3.00 | 4.60 | 6.70 | 9.35 | 12.60 | 17.80 |
| 3½ | 2.10 | 2.60 | 3.20 | 4.90 | 7.10 | 9.90 | 13.30 | 18.70 |
| 4 | 2.20 | 2.75 | 3.40 | 5.20 | 7.50 | 10.45 | 14.00 | 19.60 |
| 4½ | 2.30 | 2.90 | 3.60 | 5.50 | 7.90 | 11.00 | 14.70 | 20.50 |
| 5 | 2.40 | 3.05 | 3.80 | 5.80 | 8.30 | 11.55 | 15.40 | 21.40 |
| 5½ | 2.50 | 3.20 | 4.00 | 6.10 | 8.70 | 12.10 | 16.10 | 22.30 |
| 6 | 2.60 | 3.35 | 4.20 | 6.40 | 9.10 | 12.65 | 16.80 | 23.20 |
| 6½ | 2.70 | 3.50 | 4.40 | 6.70 | 9.50 | 13.20 | 17.50 | 24.10 |
| 7 | 2.80 | 3.65 | 4.60 | 7.00 | 9.90 | 13.75 | 18.20 | 25.00 |
| 7½ | 2.90 | 3.80 | 4.80 | 7.30 | 10.30 | 14.30 | 18.90 | 25.90 |
| 8 | 3.00 | 3.95 | 5.00 | 7.60 | 10.70 | 14.85 | 19.60 | 26.80 |
| 9 | 3.10 | 4.10 | 5.20 | 7.90 | 11.10 | 15.40 | 20.30 | 27.70 |
| 10 | 3.20 | 4.25 | 5.40 | 8.20 | 11.50 | 15.95 | 21.00 | 28.60 |
| 11 | 3.30 | 4.40 | 5.60 | 8.50 | 11.90 | 16.50 | 21.70 | 29.50 |
| 12 | 3.40 | 4.55 | 5.80 | 8.80 | 12.30 | 17.05 | 22.40 | 30.40 |
| 13 | 3.50 | 4.70 | 6.00 | 9.10 | 12.70 | 17.60 | 23.10 | 31.30 |
| 14 | 3.60 | 4.85 | 6.20 | 9.40 | 13.10 | 18.15 | 23.80 | 32.20 |
| 15 | 3.70 | 5.00 | 6.40 | 9.70 | 13.50 | 18.70 | 24.50 | 33.10 |
| 16 | 3.80 | 5.15 | 6.60 | 10.00 | 13.90 | 19.25 | 25.20 | 34.00 |
| 17 | 3.90 | 5.30 | 6.80 | 10.30 | 14.30 | 19.80 | 25.90 | 34.90 |
| 18 | 4.00 | 5.45 | 7.00 | 10.60 | 14.70 | 20.35 | 26.60 | 35.80 |
| 19 | 4.10 | 5.60 | 7.20 | 10.90 | 15.10 | 20.90 | 27.30 | 36.70 |
| 20 | 4.20 | 5.75 | 7.40 | 11.20 | 15.50 | 21.45 | 28.00 | 37.60 |
| 21 | 4.30 | 5.90 | 7.60 | 11.50 | 15.90 | 22.00 | 28.70 | 38.50 |
| 22 | 4.40 | 6.05 | 7.80 | 11.80 | 16.30 | 22.55 | 29.40 | 39.40 |
| 23 | 4.50 | 6.20 | 8.00 | 12.10 | 16.70 | 23.10 | 30.10 | 40.30 |
| 24 | 4.60 | 6.35 | 8.20 | 12.40 | 17.10 | 23.65 | 30.80 | 41.20 |
| 25 | 4.70 | 6.50 | 8.40 | 12.70 | 17.50 | 24.20 | 31.50 | 42.10 |
| 26 | 4.80 | 6.65 | 8.60 | 13.00 | 17.90 | 24.75 | 32.20 | 43.00 |
| 27 | 4.90 | 6.80 | 8.80 | 13.30 | 18.30 | 25.30 | 32.90 | 43.90 |
| 28 | 5.00 | 6.95 | 9.00 | 13.60 | 18.70 | 25.85 | 33.60 | 44.80 |
| 29 | 5.10 | 7.10 | 9.20 | 13.90 | 19.10 | 26.40 | 34.30 | 45.70 |
| 30 | 5.20 | 7.25 | 9.40 | 14.20 | 19.50 | 26.95 | 35.00 | 46.60 |
| 31 | 5.30 | 7.40 | 9.60 | 14.50 | 19.90 | 27.50 | 35.70 | 47.50 |
| 32 | 5.40 | 7.55 | 9.80 | 14.80 | 20.30 | 28.05 | 36.40 | 48.40 |
| 33 | 5.50 | 7.70 | 10.00 | 15.10 | 20.70 | 28.60 | 37.10 | 49.30 |
| 34 | 5.60 | 7.85 | 10.20 | 15.40 | 21.10 | 29.15 | 37.80 | 50.20 |
| 35 | 5.70 | 8.00 | 10.40 | 15.70 | 21.50 | 29.70 | 38.50 | 51.10 |
| 36 | 5.80 | 8.15 | 10.60 | 16.00 | 21.90 | 30.25 | 39.20 | 52.00 |
| 37 | 5.90 | 8.30 | 10.80 | 16.30 | 22.30 | 30.80 | 39.90 | 52.90 |
| 38 | 6.00 | 8.45 | 11.00 | 16.60 | 22.70 | 31.35 | 40.60 | 53.80 |
| 39 | 6.10 | 8.60 | 11.20 | 16.90 | 23.10 | 31.90 | 41.30 | 54.70 |
| 40 | 6.20 | 8.75 | 11.40 | 17.20 | 23.50 | 32.45 | 42.00 | 55.60 |

BRASS MACHINE BOLTS

HEX HEADS AND HEX NUTS

Price Per Hundred

| Lgth. In. | Diameter of Bolt, Inches | | | | | | | |
|--------------|--------------------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|
| | $\frac{1}{4}$ | $\frac{3}{16}$ | $\frac{1}{2}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| 2 | \$ 9.80 | 12.00 | 14.20 | 17.70 | 20.40 | 23.20 | 41.80 | |
| 2½ | 10.20 | 12.60 | 15.00 | 18.90 | 21.90 | 30.40 | 45.00 | |
| 3 | 10.60 | 13.20 | 15.90 | 20.00 | 23.30 | 32.60 | 48.20 | |
| 3½ | 11.00 | 13.90 | 16.70 | 21.10 | 24.80 | 34.70 | 51.40 | |
| 4 | 11.40 | 14.50 | 17.50 | 22.20 | 26.20 | 37.00 | 54.50 | |
| 4½ | 11.80 | 15.10 | 18.20 | 23.40 | 27.70 | 39.00 | 57.60 | |
| 5 | 12.20 | 15.80 | 19.20 | 24.50 | 29.20 | 41.30 | 60.80 | |
| 5½ | 12.60 | 16.40 | 20.00 | 25.60 | 30.70 | 43.80 | 64.00 | |
| 6 | 13.00 | 17.00 | 20.80 | 26.80 | 32.10 | 45.60 | 67.20 | |

CARRIAGE BOLTS

U. S. THREADS



Oval Heads, Hot Pressed Nuts

Standard List Effective September 1, 1923.

Price Per Hundred

| Lgth., In. | Diameter, Inches | | | | | | | |
|---------------|-------------------------------|----------------|---------------|----------------|---------------|----------------|-------------------------------|---------------|
| | $\frac{1}{4}$ & $\frac{1}{2}$ | $\frac{3}{16}$ | $\frac{1}{2}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ & $\frac{3}{4}$ | $\frac{3}{4}$ |
| 1 | \$1.00 | 1.40 | 1.90 | 2.50 | ..... | ..... | ..... | ..... |
| 1½ | 1.00 | 1.40 | 1.90 | 2.50 | ..... | ..... | ..... | ..... |
| 2 | 1.10 | 1.55 | 2.10 | 2.75 | ..... | ..... | ..... | ..... |
| 2½ | 1.20 | 1.70 | 2.30 | 3.00 | 3.25 | 6.00 | 9.80 | |
| 3 | 1.30 | 1.85 | 2.50 | 3.25 | 3.55 | 6.40 | 10.30 | |
| 3½ | 1.40 | 2.00 | 2.70 | 3.50 | 3.85 | 6.80 | 10.80 | |
| 4 | 1.50 | 2.15 | 2.90 | 3.75 | 4.15 | 7.20 | 11.30 | |
| 4½ | 1.60 | 2.30 | 3.10 | 4.00 | 4.45 | 7.60 | 11.80 | |
| 5 | 1.70 | 2.45 | 3.30 | 4.25 | 4.75 | 8.00 | 12.30 | |
| 5½ | 1.80 | 2.60 | 3.50 | 4.50 | 5.05 | 8.40 | 12.80 | |
| 6 | 1.90 | 2.75 | 3.70 | 4.75 | 5.35 | 8.80 | 13.30 | |
| 6½ | 2.75 | 3.65 | 4.65 | 5.75 | 6.40 | 9.20 | 13.80 | |
| 7 | 2.85 | 3.80 | 4.85 | 6.00 | 6.70 | 9.60 | 14.30 | |
| 7½ | 2.95 | 3.95 | 5.05 | 6.25 | 7.00 | 10.00 | 14.80 | |
| 8 | 3.05 | 4.10 | 5.20 | 6.50 | 7.30 | 10.40 | 15.30 | |
| 8½ | 3.15 | 4.25 | 5.45 | 6.75 | 7.60 | 10.80 | 15.80 | |
| 9 | 3.25 | 4.40 | 5.65 | 7.00 | 7.90 | 11.20 | 16.30 | |
| 9½ | 3.35 | 4.55 | 5.85 | 7.25 | 8.20 | 11.60 | 16.80 | |
| 10 | 3.45 | 4.70 | 6.05 | 7.50 | 8.50 | 12.00 | 17.30 | |
| 11 | 3.65 | 5.00 | 6.45 | 8.00 | 9.10 | 12.80 | 18.30 | |
| 12 | 3.85 | 5.30 | 6.85 | 8.50 | 9.70 | 13.60 | 19.30 | |
| 13 | 4.05 | 5.60 | 7.25 | 9.00 | 10.30 | 14.40 | 20.30 | |
| 14 | 4.25 | 5.90 | 7.65 | 9.50 | 10.90 | 15.20 | 21.30 | |
| 15 | 4.45 | 6.20 | 8.05 | 10.00 | 11.50 | 16.00 | 22.30 | |
| 16 | 4.65 | 6.50 | 8.45 | 10.50 | 12.10 | 16.80 | 23.30 | |
| 17 | 4.85 | 6.80 | 8.85 | 11.00 | 12.70 | 17.60 | 24.30 | |
| 18 | 5.05 | 7.10 | 9.25 | 11.50 | 13.30 | 18.40 | 25.30 | |
| 19 | 5.25 | 7.40 | 9.65 | 12.00 | 13.90 | 19.20 | 26.30 | |
| 20 | 5.45 | 7.70 | 10.05 | 12.50 | 14.50 | 20.00 | 27.30 | |

BRASS CARRIAGE BOLTS

WITH HEX NUTS

Price Per Hundred

| Length, Inches | Diameter of Bolt, Inches. | | | | |
|-------------------|---------------------------|----------------|---------------|----------------|---------------|
| | $\frac{1}{4}$ | $\frac{3}{16}$ | $\frac{1}{2}$ | $\frac{5}{16}$ | $\frac{3}{4}$ |
| 2 | \$ 9.60 | 11.80 | 14.00 | 17.40 | 20.00 |
| 2½ | 10.00 | 12.40 | 14.80 | 18.50 | 21.50 |
| 3 | 10.50 | 13.00 | 15.60 | 19.60 | 22.90 |
| 3½ | 10.80 | 13.60 | 16.40 | 20.70 | 24.40 |
| 4 | 11.20 | 14.20 | 17.10 | 21.70 | 25.80 |
| 5 | 12.00 | 15.50 | 18.80 | 24.00 | 28.50 |
| 6 | 12.80 | 16.80 | 20.50 | 26.30 | 31.10 |
| 7 | 13.40 | 17.70 | 21.70 | 28.00 | 33.20 |
| 8 | 14.20 | 19.00 | 23.30 | 30.20 | 36.00 |

TIRE BOLTS



Plain.

CHAMFERED NUTS, FINISHED POINT

List December 28, 1899

Price Per 100

| Diameter, In. | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ |
|----------------------------|---------------|----------------|---------------|----------------|---------------|
| Length 1 in. | \$0.60 | \$0.60 | \$0.95 | \$1.40 | \$2.20 |
| Length 1 $\frac{1}{4}$ in. | .60 | .60 | .95 | 1.40 | 2.20 |
| Length 1 $\frac{1}{2}$ in. | .60 | .60 | .95 | 1.40 | 2.20 |
| Length 1 $\frac{3}{4}$ in. | .65 | .65 | 1.00 | 1.40 | 2.20 |
| Length 2 in. | .70 | .70 | 1.05 | 1.47 | 2.20 |
| Length 2 $\frac{1}{4}$ in. | .75 | .75 | 1.10 | 1.54 | 2.30 |
| Length 2 $\frac{1}{2}$ in. | .80 | .80 | 1.15 | 1.61 | 2.40 |
| Length 2 $\frac{3}{4}$ in. | .85 | .85 | 1.20 | 1.68 | 2.50 |
| Length 3 in. | .90 | .90 | 1.25 | 1.75 | 2.60 |
| Length 3 $\frac{1}{4}$ in. | .95 | .95 | 1.30 | 1.82 | 2.70 |
| Length 3 $\frac{1}{2}$ in. | 1.00 | 1.00 | 1.35 | 1.89 | 2.80 |

STEP BOLTS

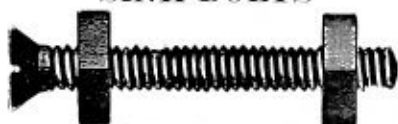


U. S. S. Cut Threads

Price Per 100

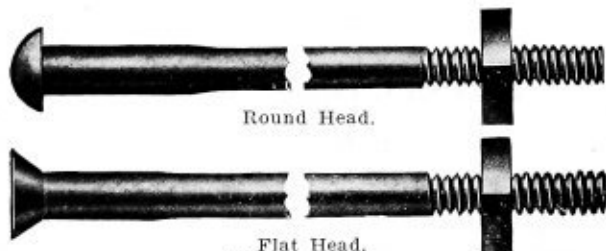
| Diameter, Inches | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ |
|----------------------------|---------------|----------------|---------------|
| Length 1 in. | \$3.00 | 4.00 | 5.40 |
| Length 1 $\frac{1}{4}$ in. | 3.10 | 4.00 | 5.40 |
| Length 1 $\frac{1}{2}$ in. | 3.20 | 4.00 | 5.40 |
| Length 2 in. | 3.40 | 4.10 | 5.40 |
| Length 2 $\frac{1}{2}$ in. | 3.60 | 4.40 | 5.80 |
| Length 3 in. | 3.80 | 4.70 | 6.20 |
| Length 3 $\frac{1}{2}$ in. | 4.00 | 5.00 | 6.70 |
| Length 4 in. | 4.20 | 5.30 | 7.10 |

SINK BOLTS



With Two Square Nuts

| Size, Inches | 2x $\frac{1}{4}$ | 2 $\frac{1}{4}$ x $\frac{1}{4}$ | 2 $\frac{1}{2}$ x $\frac{1}{4}$ |
|--------------|------------------|---------------------------------|---------------------------------|
| Brass | Per 100, \$19.20 | 20.80 | 22.40 |
| Iron | Per 100, 2.50 | 2.60 | 2.70 |

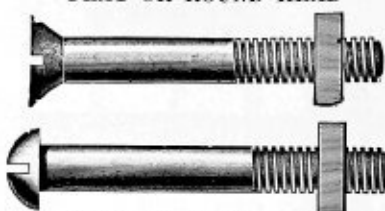
STOVE RODS
ROUND OR FLAT HEAD

Round Head.

Flat Head.
Threaded, 3 in.

Price Per 100

| Length, inches | Diameter, inches. | | | | | |
|----------------|-------------------|---------------|----------------|----------------|---------------|----------------|
| | Round Head. | | | Flat Head. | | |
| | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ |
| 8 | \$2.35 | \$3.20 | \$4.05 | \$2.15 | \$2.80 | \$3.45 |
| 10 | 2.60 | 3.65 | 4.70 | 2.35 | 3.20 | 4.05 |
| 12 | 2.85 | 4.10 | 5.35 | 2.55 | 3.60 | 4.65 |
| 18 | 3.65 | 5.45 | 7.25 | 3.20 | 4.80 | 6.40 |
| 24 | 4.45 | 6.80 | 9.15 | 3.85 | 6.00 | 8.15 |

STOVE BOLTS
FLAT OR ROUND HEAD

Standard List, Adopted November 1, 1923

Price Per 100

| Length, Inches | Diameter, Inches | | | | | |
|-------------------|--------------------------------|---------------|----------------|---------------|---------------|--|
| | $\frac{1}{8}$ & $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | |
| $\frac{3}{8}$ | \$0.85 | \$0.85 | | | | |
| $\frac{1}{2}$ | .85 | .85 | \$1.20 | | | |
| $\frac{5}{8}$ | .85 | .85 | 1.20 | | | |
| $\frac{3}{4}$ | .85 | .85 | 1.20 | \$1.75 | \$2.65 | |
| $\frac{7}{8}$ | .90 | .90 | 1.25 | 1.80 | 2.75 | |
| 1 | .90 | .90 | 1.30 | 1.85 | 2.85 | |
| 1 $\frac{1}{8}$ | .95 | .95 | 1.35 | 1.90 | 2.95 | |
| 1 $\frac{1}{4}$ | 1.00 | 1.00 | 1.40 | 1.95 | 3.05 | |
| 1 $\frac{3}{8}$ | 1.05 | 1.05 | 1.45 | 2.00 | 3.15 | |
| 1 $\frac{1}{2}$ | 1.10 | 1.10 | 1.50 | 2.05 | 3.25 | |
| 1 $\frac{3}{4}$ | 1.20 | 1.20 | 1.60 | 2.25 | 3.45 | |
| 2 | 1.30 | 1.30 | 1.70 | 2.45 | 3.85 | |
| 2 $\frac{1}{4}$ | | 1.45 | 1.85 | 2.60 | 4.05 | |
| 2 $\frac{1}{2}$ | | 1.60 | 2.00 | 2.75 | 4.25 | |
| 2 $\frac{3}{4}$ | | 1.70 | 2.10 | 2.90 | 4.45 | |
| 3 | | 1.80 | 2.20 | 3.05 | 4.65 | |
| 3 $\frac{1}{2}$ | | 2.00 | 2.40 | 3.40 | 5.15 | |
| 4 | | 2.20 | 2.70 | 3.70 | 5.65 | |
| 4 $\frac{1}{2}$ | | 2.40 | 3.00 | 4.00 | 6.15 | |
| 5 | | 2.60 | 3.30 | 4.40 | 6.65 | |
| 5 $\frac{1}{2}$ | | 2.80 | 3.60 | 4.80 | 7.15 | |
| 6 | | 3.05 | 3.90 | 5.20 | 7.65 | |

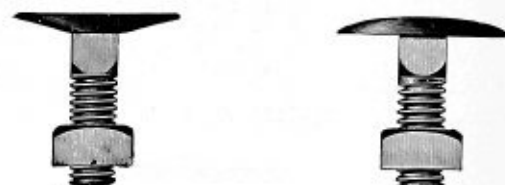
100 Bolts in a Box, with Nuts.

Assorted

Per Assortment

No. 100 Assortment—Consists of 10 Each $\frac{1}{8}$ x $\frac{3}{4}$ and 1 in. and 10 Each $\frac{1}{4}$ x $\frac{3}{4}$ and 1 in. Flat Head, 10 Each $\frac{1}{8}$ x $\frac{1}{2}$, $\frac{3}{8}$ and 1 in. and 10 Each $\frac{1}{4}$ x $\frac{3}{4}$, 1 and 1 $\frac{1}{4}$ in. Round Head, Put Up in a Carton. \$1.50

BELT OR ELEVATOR BOLTS



No. 1.

No. 2.

With Countersunk or Oval Heads

Price Per 100

No. 1—Large Countersunk Heads

| Diameter, inches | $\frac{1}{8}$ & $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ |
|-----------------------------|-------------------------------|----------------|---------------|
| Length, $\frac{3}{4}$ in. | \$2.20 | 3.00 | 4.00 |
| Length, $\frac{1}{2}$ in. | 2.30 | 3.00 | 4.00 |
| Length, 1 in. | 2.30 | 3.00 | 4.00 |
| Length, 1 $\frac{1}{4}$ in. | 2.40 | 3.20 | 4.30 |
| Length, 1 $\frac{1}{2}$ in. | 2.50 | 3.40 | 4.60 |
| Length, 1 $\frac{3}{4}$ in. | 2.60 | 3.60 | 4.90 |
| Length, 2 in. | 2.70 | 3.80 | 5.20 |

No. 2—Oval Heads.

| Diameter, inches | $\frac{1}{8}$ & $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ |
|-----------------------------|-------------------------------|----------------|---------------|
| Length, $\frac{3}{4}$ in. | \$2.20 | 3.00 | 4.00 |
| Length, $\frac{1}{2}$ in. | 2.30 | 3.00 | 4.00 |
| Length, 1 in. | 2.30 | 3.00 | 4.00 |
| Length, 1 $\frac{1}{4}$ in. | 2.40 | 3.20 | 4.30 |

Length is Measured Under Head.

Will be furnished with Countersunk Head Unless Otherwise Specified.

AUTO WHEEL BOLTS

SQUARE NECK



Bullet Head, Cold Punched Hexagon Nuts

U. S. Standard Threads

| | | | | | |
|---------------------|---------------|---------------|---------------|---------------|---------------|
| Diameter, Inches... | $\frac{3}{8}$ | $\frac{7}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Length, Inches.... | 2 | 2 1/4 | 2 1/4 | 2 1/2 | 2 3/4 |
| Per 100 | \$2.30 | 2.30 | 2.50 | 2.50 | 2.75 |

| | | | | | |
|---------------------|---------------|---------------|---------------|---------------|---------------|
| Diameter, Inches... | $\frac{3}{8}$ | $\frac{7}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Length, Inches.... | 3 | 2 1/2 | 3 | 3 1/4 | 3 1/2 |
| Per 100 | \$2.75 | 3.30 | 3.60 | 3.80 | 3.80 |

| | | | | | |
|---------------------|---------------|---------------|---------------|---------------|---------------|
| Diameter, Inches... | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Length, Inches.... | 2 1/2 | 2 3/4 | 3 | 3 1/4 | 3 1/2 |
| Per 100 | \$4.00 | 4.10 | 4.15 | 4.25 | 4.25 |

Dimensions

| Diam. | Head Dimensions | | | | Lgth. Thd. | U. S. S. Nut | |
|---------------|-----------------|---------------|---------------|----------------|------------|---------------|---------------|
| | Width | Thick. | Lg., Sq. | Rod | | Width | Thick. |
| $\frac{3}{8}$ | $\frac{3}{4}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{3}{16}$ | 1 | $\frac{1}{2}$ | $\frac{1}{8}$ |
| $\frac{7}{8}$ | $\frac{7}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{3}{16}$ | 1 1/4 | $\frac{1}{2}$ | $\frac{3}{8}$ |
| $\frac{1}{2}$ | 1 | $\frac{3}{8}$ | $\frac{1}{8}$ | $\frac{3}{16}$ | 1 1/4 | $\frac{3}{4}$ | $\frac{1}{2}$ |

LAG SCREWS

GIMLET POINT



With Square Head

Manufacturers' Standard List, Effective Sept. 1, 1923
Prices Per 100.

| Lgth. In. | $\frac{1}{4}$ and $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ and $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | 1 |
|-----------|---------------------------------|---------------|---------------|---------------|---------------------------------|---------------|---------------|-------|
| 1 1/2 | \$2.25 | 2.70 | 3.15 | 3.75 | ..... | ..... | ..... | ..... |
| 2 | 2.45 | 3.00 | 3.50 | 4.15 | 6.00 | ..... | ..... | ..... |
| 2 1/2 | 2.65 | 3.30 | 3.85 | 4.55 | 6.50 | 9.20 | ..... | ..... |
| 3 | 2.85 | 3.60 | 4.20 | 4.95 | 7.00 | 9.90 | 15.00 | ..... |
| 3 1/2 | 3.05 | 3.90 | 4.55 | 5.35 | 7.50 | 10.60 | 16.00 | 22.00 |
| 4 | 3.25 | 4.20 | 4.90 | 5.75 | 8.00 | 11.30 | 17.00 | 23.30 |
| 4 1/2 | 3.45 | 4.50 | 5.25 | 6.15 | 8.50 | 12.00 | 18.00 | 24.60 |
| 5 | 3.65 | 4.80 | 5.60 | 6.55 | 9.00 | 12.70 | 19.00 | 25.90 |
| 5 1/2 | 3.85 | 5.10 | 5.95 | 6.95 | 9.50 | 13.40 | 20.00 | 27.20 |
| 6 | 4.05 | 5.40 | 6.30 | 7.35 | 10.00 | 14.10 | 21.00 | 28.50 |
| 6 1/2 | 5.25 | 6.70 | 7.65 | 8.75 | 10.50 | 14.80 | 22.00 | 29.80 |
| 7 | 5.45 | 7.00 | 8.00 | 9.15 | 11.00 | 15.50 | 23.00 | 31.10 |
| 7 1/2 | 5.65 | 7.30 | 8.35 | 9.55 | 11.50 | 16.20 | 24.00 | 32.40 |
| 8 | 5.85 | 7.60 | 8.70 | 9.95 | 12.00 | 16.90 | 25.00 | 33.70 |
| 9 | 6.25 | 8.20 | 9.40 | 10.75 | 13.00 | 18.30 | 27.00 | 36.30 |
| 10 | 6.65 | 8.80 | 10.10 | 11.55 | 14.00 | 19.70 | 29.00 | 38.90 |
| 11 | 7.05 | 9.40 | 10.80 | 12.35 | 15.00 | 21.10 | 31.00 | 41.50 |
| 12 | 7.45 | 10.00 | 11.50 | 13.15 | 16.00 | 22.50 | 33.00 | 44.10 |

HANGER TYPE



With Pipe Thread.

| | | | |
|-------------------------|---------------|---------------|---------------|
| Nos. | 1 | 2 | 3 |
| Pipe Thread, Inches.... | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ |
| Each | \$0.10 | .12 | .14 |

EXPANSION SHIELDS

DIAMOND



Malleable Iron Long Standard Shields, for Square Head Lag Screws

Free from warp or twist, accurately machined and carefully assembled. Lag Screws are Not Included.

| | | | | |
|-------------------------------|---------------|---------------|---------------|---------------|
| For Lag Screws, Diameter, In. | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length of Shield, Inches.... | 1 1/2 | 1 3/4 | 2 3/4 | 2 3/4 |
| Outside Diameter Shield, In. | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Diameter Drill Required, In. | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Per 100 | \$15.00 | 18.00 | 25.00 | 32.00 |

| | | | | |
|-------------------------------------|---------------|---------------|---------------|---------------|
| For Lag Screws, Diameter, Inches... | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length of Shield, Inches.... | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 |
| Outside Diameter Shield, Inches.... | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Diameter Drill Required, Inches.... | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Per 100 | \$38.00 | 45.00 | 65.00 | 65.00 |

One Hundred in a Box.

DIAMOND SUPER-GRIP

Consist of a cone shaped Brass Nut and a tubular Expansion Shield cast of Lead and Antimony. Grooves on the side of the shield are not cut through, prevent its expansion before it is tightened up in the wall, hold the nut securely in place, and permit easy expansion when bolt is turned up.

Positively resist rust. No calking tool required.

For Machine Bolts



| | | | | | |
|---------------------------------|----------------|---------------|---------------|---------------|---------------|
| | Without Bolts. | | | | |
| Diam. Bolt, In.... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Lgth. Shield, In.... | 1 1/4 | 1 3/4 | 2 1/4 | 2 5/8 | 3 |
| Diam. Hole and Drill, Inches... | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 |
| Per 100 | \$18.00 | 25.00 | 38.00 | 45.00 | 65.00 |

For Machine Screws



| | | | | |
|------------------------------|-----------------|---------------|---------------|---------------|
| | Without Screws. | | | |
| Diameter Screw..... | 8-32 | 10-24 | 12-24 | 14-20 |
| Length of Shield, Inches.... | $\frac{1}{2}$ | $\frac{1}{2}$ | 1 1/4 | 1 1/4 |
| Diam. Hole and Drill, In. | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ |
| Per 100 | \$10.00 | 10.00 | 15.00 | 15.00 |

LOXIN SINGLE



Pressed Steel, for Machine Bolts
Without Bolts.

| | | | | |
|--------------------------------|---------------|---------------|---------------|---------------|
| Nos. | 416L | 516L | 616L | 716L |
| For Machine Bolt, Diam., In. | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length of Shield, Inches.... | 1 1/4 | 2 | 2 | 2 1/2 |
| Outside Diam. of Shield, In. | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Size of Drill Required, Inches | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Weight Per 100, Lbs..... | 3 1/2 | 3 1/2 | 8 | 17 1/2 |
| Per 100 | \$15.00 | 18.00 | 25.00 | 32.00 |

| | | | |
|--------------------------------------|---------------|---------------|---------------|
| Nos. | 816L | 1016L | 1216L |
| For Machine Bolt, Diameter, Inches.. | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Length of Shield, Inches.... | 2 1/2 | 3 | 3 1/2 |
| Outside Diameter of Shield, Inches.. | $\frac{3}{4}$ | 1 | 1 1/4 |
| Size of Drill Required, Inches.... | $\frac{3}{4}$ | 1 | 1 1/4 |
| Weight Per 100 Lbs..... | 17 1/2 | 30 | 40 |
| Per 100 | \$38.00 | 45.00 | 65.00 |

"Loxin" loose or tight holes and will not come apart. Will carry a greater load and is easier to install.

EXPANSION SHIELDS

STAR DOUBLE



Pressed Steel, For Machine Bolts

Without Bolts.

| | | | | |
|-----------------------|---------|--------|-------|-------|
| For Bolt, Diam., In. | 3/4 | 1 1/4 | 1 3/4 | 2 1/4 |
| Length of Shield, In. | 1 1/2 | 2 1/2 | 3 | 3 3/4 |
| O. D. and Drill Req. | 5/8 | 7/8 | 1 | 1 1/8 |
| Weight Per 100, Lbs. | 7 | 15 1/2 | 26 | 42 |
| Per 100 | \$25.00 | 38.00 | 45.00 | 65.00 |

Note smaller drill requirements as in comparison with malleable iron. It is necessary to use the proper size drill in order to obtain best results with all expansion shields.

KEYSTONE DOUBLE



For Machine Bolts

Without Bolts.

| Diam., Bolt, Inches | Length, Inches | O. D. and Size Drill Used | Inches Per 100 |
|---------------------|----------------|---------------------------|----------------|
| 3/4 | 1 1/2 | 1/2 | \$ 15.00 |
| 7/8 | 1 3/4 | 5/8 | 18.00 |
| 1 | 2 | 3/4 | 25.00 |
| 1 1/8 | 2 1/4 | 7/8 | 32.00 |
| 1 1/4 | 2 1/2 | 1 | 38.00 |
| 1 1/2 | 2 3/4 | 1 1/8 | 45.00 |
| 1 3/4 | 3 | 1 1/4 | 65.00 |
| 2 | 3 1/4 | 1 1/2 | 95.00 |
| 2 1/4 | 4 1/2 | 1 3/4 | 110.00 |
| 2 1/2 | 6 | 2 | 250.00 |
| 2 3/4 | 7 1/2 | 2 1/4 | 350.00 |

Made of refined malleable iron. Develop their hold by means of a cone shaped nut and a cone shaped collar drawn by the action of the thread toward each other when encased in two shells having inwardly tapering bores.

MACHINE SHIELDS

OPEN BACK



No. 118—"Forway" Malleable Iron, Shields Only

| Size, Inches | Length Shield, Inches | Drill Size, Inches | Number in Box | Weight Per 100 | Per 100 |
|--------------|-----------------------|--------------------|---------------|----------------|---------|
| 3/4 | 1 1/4 | 1/2 | 100 | 4 | \$15.00 |
| 7/8 | 1 1/2 | 5/8 | 100 | 5 | 18.00 |
| 1 | 1 3/4 | 3/4 | 100 | 7 | 25.00 |
| 1 1/8 | 2 1/4 | 7/8 | 100 | 17 1/2 | 38.00 |
| 1 1/4 | 2 3/4 | 1 | 50 | 26 | 45.00 |
| 1 1/2 | 3 1/2 | 1 1/4 | 50 | 50 | 65.00 |

Size denotes diameter of Bolt with which the shield is used.

All Orders for Regular Goods Shipped Same Day
Order is Received. Send Us Your Mail Orders.

SCREW ANCHORS

DIAMOND N-Y



Without Screws

| Size, Inches | Screw No. | Length of Shield, Inches | Outside Diam., Inches | Per 100 |
|----------------|-----------------|--------------------------|-----------------------|---------|
| 1/2 x 1/2 | 5, 6, 7 | 1 1/2 | 1/4 | \$ 4.40 |
| 3/4 x 3/4 | 5, 6, 7 | 3/4 | 1/4 | 4.40 |
| 1 x 1 | 8, 9, 10, 11 | 3/4 | 1/4 | 5.00 |
| 1 1/4 x 1 Lt. | 9, 10, 11 | 1 | 3/8 | 5.00 |
| 1 1/4 x 1 Hvy. | 9, 10, 11 | 1 | 3/8 | 5.00 |
| 1 1/2 x 1 | 12, 13, 14 | 3/4 | 1/2 | 5.60 |
| 1 3/4 x 1 | 12, 13, 14 | 1 | 1/2 | 5.60 |
| 2 x 1 1/2 | 12, 13, 14 | 1 1/2 | 3/4 | 8.00 |
| 2 1/4 x 2 | 12, 13, 14 | 2 | 1/2 | 10.00 |
| 2 1/2 x 1 1/2 | 15, 16, 17, 18 | 1 1/2 | 1/2 | 10.00 |
| 2 3/4 x 2 | 15, 16, 17, 18 | 2 | 1/2 | 13.00 |
| 3 x 2 | 20, 22, 24 | 2 | 3/4 | 15.00 |
| 3 1/2 x 2 | 26, 28, 30 | 2 | 3/4 | 25.00 |
| 4 x 2 | 5/8 in. Lag Sc. | 2 | 7/8 | 30.00 |

Made of non-corroding, rust-proof composition metal, put up in wooden boxes, 100 to a box.

EXPANSIVE SCREW ANCHORS

ACKERMAN-JOHNSON



For attaching any object to hard materials, as concrete, brick, stone, tile, marble, etc. Their holding power exceeds the tensile strength of the best steel screw or bolt of corresponding size.

Instantly installed without the aid of the screw, and before the fixture is lifted into position to be fastened.

Consists of a doubly tapered internally threaded cone made of brass, iron or steel within a lead-composition ductile sleeve.

Prices Not Including Screws

| Anchor Size Nos. | Shipping Weight, Per 1000 Lbs. | Diam. Inches | Depth, Inches | Per 100 |
|------------------|--------------------------------|--------------|---------------|---------|
| 6x32 | 7 1/2 | 3/4 | 3/4 | \$ 3.80 |
| 8x32 | 15 | 1 | 1 1/2 | 4.50 |
| 10x24 | 22 1/2 | 3/4 | 3/4 | 4.95 |
| 12x24 | 34 | 1 | 3/4 | 6.50 |
| 1 1/2 x 20 | 50 1/2 | 1 1/2 | 7/8 | 7.20 |
| 1 1/2 x 18 | 95 | 1 1/2 | 1 | 9.75 |
| 1 3/4 x 16 | 162 | 1 3/4 | 1 1/4 | 10.80 |
| 1 3/4 x 14 | 231 | 1 3/4 | 1 1/2 | 12.90 |
| 1 3/4 x 13 | 221 | 1 3/4 | 1 1/2 | 12.90 |
| 2 x 11 | 512 | 2 | 2 | 25.00 |

Packed 50 or 100 in a Box.

PILOTTED SETTING PUNCH



Included, without additional charge, with every box of anchors. Extra punches, if needed, furnished on request.

Piloted Setting Punch—When Ordered Separately... \$0.50

HAMMERLESS SETTING TOOL



Anchors are set perfectly in thin materials by means of the Hammerless Setting Tool.

A very handy tool. Complete instructions for using furnished with each tool.

| | |
|---|--------|
| No. 1—For Setting Anchor No. 8x32 | \$1.00 |
| No. 2—For Setting Anchor No. 10x24 | 1.00 |
| No. 3—For Setting Anchor No. 12x24 | 2.00 |
| No. 4—For Setting Anchor No. 1 1/2 x 20 | 2.00 |

RAWLPLUGS

Fibre Screw Anchors
HOLD SCREWS FAST

An ordinary wood screw, driven home inside a Rawlplug, is held in a vise-like grip in marble, glass, stone, cement, tile, slate, concrete, plaster, brick and even in steel.

Made up of tough jute fibres which are expanded and forced into the surrounding material. Once fastened, a Rawlplug-ed screw is in forever. Absolutely invisible when in position. Unaffected by moisture or change in temperature.

Used by builders, contractors, plumbers, electricians and householders.

Price Per 100

(Rawlplugs need only be as long as threaded part of Screw).

| Size of Rawl-Drill Hole, & plug Rawlplug, In. | Use Screws | Length Rawlplug, In. | Asst. Lgths. | |
|---|----------------|----------------------|--------------|------|
| 6 | $\frac{3}{16}$ | 6-7 | 1 | 1.45 |
| 8 | $\frac{1}{8}$ | 8-9 | 1 | 1.80 |
| 10 | $\frac{9}{16}$ | 10-11 | 2 | 2.05 |
| 12 | $\frac{1}{4}$ | 12-13 | 2 | 2.45 |
| 14 | $\frac{5}{16}$ | 14-15 | 2 | 2.70 |
| 16 | $\frac{3}{8}$ | 16-17 | 2 | 3.50 |
| 20 | $\frac{1}{2}$ | 20-22 | 2 | 4.90 |
| | | | | 6.90 |

Sizes 3 to 14, 100 in a Box; 16, 18 and 20, 50 in a Box.

Lag Screw Sizes

Per 100

$\frac{3}{8}$ in. Size—Length of Plug 2 in., Size of Drill Required $\frac{1}{16}$ in., O. D. of Rawlplug $\frac{1}{16}$ in. \$7.50
25 in a Box.

RAWLDRILLS



Made of Special Alloy Steel. Easily Sharpened.

Price Per Dozen

| Sizes of Rawldrills—(Corresponding to Size of Rawlplug) | 6 | 8 | 10 | 12 |
|---|--------|-------|-------|-------|
| 3 Pt. Drill (for Hard Material) | \$2.80 | 3.00 | 3.30 | 3.70 |
| Toolholders | 12.00 | 12.00 | 12.00 | 12.00 |

| Sizes of Rawldrills—(Corresponding to Size of Rawlplug) | 14 | 16 | 20 | $\frac{3}{8}$ |
|---|--------|-------|-------|---------------|
| 3 Pt. Drill (for Hard Material) | \$4.20 | 4.80 | 6.30 | 9.60 |
| Toolholders | 12.00 | 16.00 | 16.00 | 16.00 |

One Dozen in a Box.

SEBCO DRYVINS



Carries working loads up to 1200 pounds. The Dryvin is inserted in the drilled hole—then with a few blows of the hammer the nail is driven home. This expands the metal, bonding it into the masonry and at the same time locking the lower flange of the shield.

Present a great saving in time and labor.

Complete with Nails

Galvanized

| Size, Inches | $\frac{1}{4}$ x 1 | $\frac{1}{2}$ x 1 $\frac{1}{4}$ | $\frac{3}{4}$ x 2 $\frac{1}{4}$ | $\frac{1}{2}$ x 2 | $\frac{1}{2}$ x 2 $\frac{1}{4}$ |
|------------------|-------------------|---------------------------------|---------------------------------|-------------------|---------------------------------|
| Work. Load, Lbs. | 200 | 400 | 500 | 700 | 1200 |
| Per 100 | \$10.00 | 14.00 | 18.00 | 20.00 | 30.00 |

One Hundred in a Box.

DRYVIN DRILL POINTS

| Type | Twist | Twist | Twist | Twist | Star |
|--------------|---------------|---------------|---------------|---------------|---------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Per Dozen | \$5.40 | 5.40 | 6.40 | 7.40 | 7.40 |

TOGGLE BOLTS



DIAMOND

Style No. 1

Threaded Bolt Riveted to Toggle Head.

| Size, In. | Per 100 | Size, In. | Per 100 |
|--------------------|---------|--------------------|---------|
| $\frac{1}{8}$ x 3 | \$7.70 | $\frac{1}{4}$ x 6 | \$15.00 |
| $\frac{1}{8}$ x 4 | 8.00 | $\frac{1}{8}$ x 3 | 17.50 |
| $\frac{1}{8}$ x 5 | 8.00 | $\frac{1}{8}$ x 4 | 18.00 |
| $\frac{1}{8}$ x 6 | 8.50 | $\frac{1}{8}$ x 5 | 20.00 |
| $\frac{1}{8}$ x 7 | 9.20 | $\frac{1}{8}$ x 6 | 20.00 |
| $\frac{1}{8}$ x 8 | 9.60 | $\frac{1}{8}$ x 7 | 24.00 |
| $\frac{1}{8}$ x 9 | 12.50 | $\frac{1}{8}$ x 8 | 31.00 |
| $\frac{1}{8}$ x 10 | 13.80 | $\frac{1}{8}$ x 9 | 32.00 |
| $\frac{1}{8}$ x 11 | 14.30 | $\frac{1}{8}$ x 10 | 36.00 |

WRIGLEY PATENT



No. 3—Flat Head.



No. 2—Round Head.

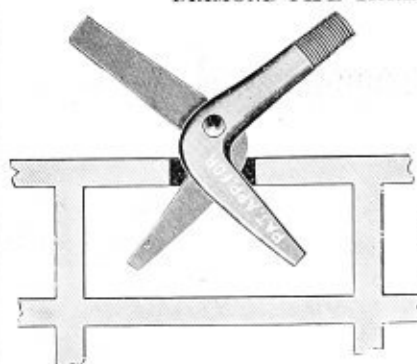
Hood Riveted On, Double Flanged Sides, Rigid Back

No. 3—Flat Head

No. 2—Round Head

| Size, Inches | $\frac{1}{8}$ x 3 | $\frac{1}{8}$ x 3 | $\frac{1}{8}$ x 4 | $\frac{1}{4}$ x 3 |
|--------------|-------------------|-------------------|-------------------|-------------------|
| Per 100 | \$5.00 | 5.00 | 5.50 | 7.00 |
| Size, Inches | $\frac{1}{4}$ x 4 | $\frac{1}{4}$ x 6 | $\frac{1}{8}$ x 4 | |
| Per 100 | \$7.50 | 8.00 | 10.00 | |

DIAMOND PIPE THREAD



TEE BOLTS

Patent Malleable Iron

For use with Hollow Bricks, can also be used on Wire Lath Ceilings.

| Pipe Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ |
|-------------------|---------------|---------------|
| Each | \$0.20 | .25 |

THREADED RODS

BRASS



Continuous Thread, Per 100 Feet

| Threads | Lengths, Feet | Per 100 Ft. | Threads | Lengths, Feet | Per 100 Ft. |
|---------|---------------|-------------|-------------------|---------------|-------------|
| 6-32 | 1 | \$5.00 | 14-20 | 2 | \$10.00 |
| 8-32 | 1 | 5.50 | $\frac{1}{4}$ -20 | 2 | 10.00 |
| 10-24 | 1 | 7.00 | $\frac{3}{8}$ -18 | 2 | 18.00 |
| 12-24 | 2 | 8.50 | $\frac{1}{2}$ -16 | 2 | 30.00 |

CAP SCREWS

HEXAGON HEAD

U. S. Standard
ThreadList Adopted
Feb. 1, 1924

Per 100

| Dia. of Head | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 1 1/4 | 1 1/2 |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Height of H'd. | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Thrs to Inch | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 |
| Dia. of Screw | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 1 1/4 | 1 1/2 |
| Length | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| 1 | \$4.35 | 4.85 | 5.80 | 7.50 | 9.55 | 11.20 | 12.80 | 14.40 |
| 1 1/4 | 4.55 | 5.00 | 6.00 | 7.70 | 9.75 | 11.40 | 13.00 | 14.60 |
| 1 1/2 | 4.70 | 5.25 | 6.20 | 7.90 | 9.95 | 11.60 | 13.20 | 14.80 |
| 2 | 5.10 | 5.60 | 6.70 | 8.50 | 10.80 | 12.90 | 14.50 | 16.10 |
| 2 1/4 | 5.45 | 6.00 | 7.15 | 9.10 | 11.50 | 13.60 | 15.20 | 16.80 |
| 2 1/2 | 5.90 | 6.55 | 7.85 | 9.75 | 12.35 | 14.50 | 16.10 | 17.70 |
| 3 | 6.35 | 7.15 | 8.50 | 10.45 | 13.15 | 15.30 | 16.90 | 18.50 |
| 3 1/4 | 6.80 | 7.55 | 9.15 | 11.20 | 14.05 | 16.20 | 17.80 | 19.40 |
| 3 1/2 | 7.20 | 8.35 | 9.80 | 11.95 | 15.00 | 17.05 | 18.65 | 20.25 |
| 4 | 7.60 | 8.90 | 10.50 | 12.65 | 15.90 | 17.95 | 19.55 | 21.15 |
| 4 1/4 | 8.05 | 9.50 | 11.15 | 13.40 | 16.80 | 18.80 | 20.40 | 22.00 |
| 4 1/2 | 8.50 | 10.00 | 11.70 | 14.15 | 17.65 | 19.65 | 21.25 | 22.85 |
| 5 | 9.00 | 10.60 | 12.40 | 14.90 | 18.50 | 20.50 | 22.35 | 23.70 |
| 5 1/4 | 9.50 | 11.20 | 13.10 | 15.65 | 19.35 | 21.35 | 23.15 | 24.55 |
| 5 1/2 | 10.00 | 11.80 | 13.70 | 16.30 | 20.10 | 22.10 | 23.90 | 25.30 |
| 6 | 10.50 | 12.40 | 14.30 | 16.95 | 20.85 | 22.85 | 24.60 | 26.00 |
| 6 1/4 | 11.00 | 13.00 | 14.90 | 17.60 | 21.60 | 23.60 | 25.35 | 26.75 |
| 6 1/2 | 11.50 | 13.60 | 15.50 | 18.25 | 22.35 | 24.35 | 26.10 | 27.50 |
| 7 | 12.00 | 14.20 | 16.10 | 18.90 | 23.10 | 25.10 | 26.85 | 28.25 |
| 7 1/4 | 12.50 | 14.80 | 16.70 | 19.55 | 23.85 | 25.85 | 27.60 | 29.00 |
| 7 1/2 | 13.00 | 15.40 | 17.30 | 20.20 | 24.60 | 26.60 | 28.35 | 29.75 |
| 8 | 13.50 | 16.00 | 17.90 | 20.85 | 25.35 | 27.35 | 29.10 | 30.50 |
| 8 1/4 | 14.00 | 16.60 | 18.50 | 21.50 | 26.10 | 28.10 | 29.85 | 31.25 |
| 8 1/2 | 14.50 | 17.20 | 19.10 | 22.15 | 26.85 | 28.85 | 30.60 | 32.00 |
| 9 | 15.00 | 17.80 | 19.70 | 22.80 | 27.60 | 29.60 | 31.35 | 32.75 |
| 9 1/4 | 15.50 | 18.40 | 20.30 | 23.45 | 28.35 | 30.35 | 32.10 | 33.50 |
| 9 1/2 | 16.00 | 19.00 | 20.90 | 24.10 | 29.10 | 31.10 | 32.85 | 34.25 |
| 10 | 16.50 | 19.60 | 21.50 | 24.75 | 29.85 | 31.85 | 33.60 | 35.00 |
| 10 1/4 | 17.00 | 20.20 | 22.10 | 25.40 | 30.60 | 32.60 | 34.35 | 35.75 |
| 10 1/2 | 17.50 | 20.80 | 22.70 | 26.05 | 31.35 | 33.35 | 35.10 | 36.50 |
| 11 | 18.00 | 21.40 | 23.30 | 26.70 | 32.10 | 34.10 | 35.85 | 37.25 |
| 11 1/4 | 18.50 | 22.00 | 23.90 | 27.35 | 32.85 | 34.85 | 36.60 | 38.00 |
| 11 1/2 | 19.00 | 22.60 | 24.50 | 28.00 | 33.60 | 35.60 | 37.35 | 38.75 |
| 12 | 19.50 | 23.20 | 25.10 | 28.65 | 34.35 | 36.35 | 38.10 | 39.50 |
| 12 1/4 | 20.00 | 23.80 | 25.70 | 29.30 | 35.10 | 37.10 | 38.85 | 40.25 |
| 12 1/2 | 20.50 | 24.40 | 26.30 | 29.95 | 35.85 | 37.85 | 39.60 | 41.00 |
| 13 | 21.00 | 25.00 | 26.90 | 30.60 | 36.60 | 38.60 | 40.35 | 41.75 |
| 13 1/4 | 21.50 | 25.60 | 27.50 | 31.25 | 37.35 | 39.35 | 41.10 | 42.50 |
| 13 1/2 | 22.00 | 26.20 | 28.10 | 31.90 | 38.10 | 40.10 | 41.85 | 43.25 |
| 14 | 22.50 | 26.80 | 28.70 | 32.55 | 38.85 | 40.85 | 42.60 | 44.00 |
| 14 1/4 | 23.00 | 27.40 | 29.30 | 33.20 | 39.60 | 41.60 | 43.35 | 44.75 |
| 14 1/2 | 23.50 | 28.00 | 29.90 | 33.85 | 40.35 | 42.35 | 44.10 | 45.50 |
| 15 | 24.00 | 28.60 | 30.50 | 34.50 | 41.10 | 43.10 | 44.85 | 46.25 |
| 15 1/4 | 24.50 | 29.20 | 31.10 | 35.15 | 41.85 | 43.85 | 45.60 | 47.00 |
| 15 1/2 | 25.00 | 29.80 | 31.70 | 35.80 | 42.60 | 44.60 | 46.35 | 47.75 |
| 16 | 25.50 | 30.40 | 32.30 | 36.45 | 43.35 | 45.35 | 47.10 | 48.50 |
| 16 1/4 | 26.00 | 31.00 | 32.90 | 37.10 | 44.10 | 46.10 | 47.85 | 49.25 |
| 16 1/2 | 26.50 | 31.60 | 33.50 | 37.75 | 44.85 | 46.85 | 48.60 | 50.00 |
| 17 | 27.00 | 32.20 | 34.10 | 38.40 | 45.60 | 47.60 | 49.35 | 50.75 |
| 17 1/4 | 27.50 | 32.80 | 34.70 | 39.05 | 46.35 | 48.35 | 50.10 | 51.50 |
| 17 1/2 | 28.00 | 33.40 | 35.30 | 39.70 | 47.10 | 49.10 | 50.85 | 52.25 |
| 18 | 28.50 | 34.00 | 35.90 | 40.35 | 47.85 | 49.85 | 51.60 | 53.00 |
| 18 1/4 | 29.00 | 34.60 | 36.50 | 41.00 | 48.60 | 50.60 | 52.35 | 53.75 |
| 18 1/2 | 29.50 | 35.20 | 37.10 | 41.65 | 49.35 | 51.35 | 53.10 | 54.50 |
| 19 | 30.00 | 35.80 | 37.70 | 42.30 | 50.10 | 52.10 | 53.85 | 55.25 |
| 19 1/4 | 30.50 | 36.40 | 38.30 | 42.95 | 50.85 | 52.85 | 54.60 | 56.00 |
| 19 1/2 | 31.00 | 37.00 | 38.90 | 43.60 | 51.60 | 53.60 | 55.35 | 56.75 |
| 20 | 31.50 | 37.60 | 39.50 | 44.25 | 52.35 | 54.35 | 56.10 | 57.50 |
| 20 1/4 | 32.00 | 38.20 | 40.10 | 44.90 | 53.10 | 55.10 | 56.85 | 58.25 |
| 20 1/2 | 32.50 | 38.80 | 40.70 | 45.55 | 53.85 | 55.85 | 57.60 | 59.00 |
| 21 | 33.00 | 39.40 | 41.30 | 46.20 | 54.60 | 56.60 | 58.35 | 59.75 |
| 21 1/4 | 33.50 | 40.00 | 41.90 | 46.85 | 55.35 | 57.35 | 59.10 | 60.50 |
| 21 1/2 | 34.00 | 40.60 | 42.50 | 47.50 | 56.10 | 58.10 | 59.85 | 61.25 |
| 22 | 34.50 | 41.20 | 43.10 | 48.15 | 56.85 | 58.85 | 60.60 | 62.00 |
| 22 1/4 | 35.00 | 41.80 | 43.70 | 48.80 | 57.60 | 59.60 | 61.35 | 62.75 |
| 22 1/2 | 35.50 | 42.40 | 44.30 | 49.45 | 58.35 | 60.35 | 62.10 | 63.50 |
| 23 | 36.00 | 43.00 | 44.90 | 50.10 | 59.10 | 61.10 | 62.85 | 64.25 |
| 23 1/4 | 36.50 | 43.60 | 45.50 | 50.75 | 59.85 | 61.85 | 63.60 | 65.00 |
| 23 1/2 | 37.00 | 44.20 | 46.10 | 51.40 | 60.60 | 62.60 | 64.35 | 65.75 |
| 24 | 37.50 | 44.80 | 46.70 | 52.05 | 61.35 | 63.35 | 65.10 | 66.50 |
| 24 1/4 | 38.00 | 45.40 | 47.30 | 52.70 | 62.10 | 64.10 | 65.85 | 67.25 |
| 24 1/2 | 38.50 | 46.00 | 47.90 | 53.35 | 62.85 | 64.85 | 66.60 | 68.00 |
| 25 | 39.00 | 46.60 | 48.50 | 54.00 | 63.60 | 65.60 | 67.35 | 68.75 |
| 25 1/4 | 39.50 | 47.20 | 49.10 | 54.65 | 64.35 | 66.35 | 68.10 | 69.50 |
| 25 1/2 | 40.00 | 47.80 | 49.70 | 55.30 | 65.10 | 67.10 | 68.85 | 70.25 |
| 26 | 40.50 | 48.40 | 50.30 | 55.95 | 65.85 | 67.85 | 69.60 | 71.00 |
| 26 1/4 | 41.00 | 49.00 | 50.90 | 56.60 | 66.60 | 68.60 | 70.35 | 71.75 |
| 26 1/2 | 41.50 | 49.60 | 51.50 | 57.25 | 67.35 | 69.35 | 71.10 | 72.50 |
| 27 | 42.00 | 50.20 | 52.10 | 57.90 | 68.10 | 70.10 | 71.85 | 73.25 |
| 27 1/4 | 42.50 | 50.80 | 52.70 | 58.55 | 68.85 | 70.85 | 72.60 | 74.00 |
| 27 1/2 | 43.00 | 51.40 | 53.30 | 59.20 | 69.60 | 71.60 | 73.35 | 74.75 |
| 28 | 43.50 | 52.00 | 53.90 | 59.85 | 70.35 | 72.35 | 74.10 | 75.50 |
| 28 1/4 | 44.00 | 52.60 | 54.50 | 60.50 | 71.10 | 73.10 | 74.85 | 76.25 |
| 28 1/2 | 44.50 | 53.20 | 55.10 | 61.15 | 71.85 | 73.85 | 75.60 | 77.00 |
| 29 | 45.00 | 53.80 | 55.70 | 61.80 | 72.60 | 74.60 | 76.35 | 77.75 |
| 29 1/4 | 45.50 | 54.40 | 56.30 | 62.45 | 73.35 | 75.35 | 77.10 | 78.50 |
| 29 1/2 | 46.00 | 55.00 | 56.90 | 63.10 | 74.10 | 76.10 | 77.85 | 79.25 |
| 30 | 46.50 | 55.60 | 57.50 | 63.75 | 74.85 | 76.85 | 78.60 | 80.00 |
| 30 1/4 | 47.00 | 56.20 | 58.10 | 64.40 | 75.60 | 77.60 | 79.35 | 80.75 |
| 30 1/2 | 47.50 | 56.80 | 58.70 | 65.05 | 76.35 | 78.35 | 80.10 | 81.50 |
| 31 | 48.00 | 57.40 | 59.30 | 65.70 | 77.10 | 79.10 | 80.85 | 82.25 |
| 31 1/4 | 48.50 | 58.00 | 59.90 | 66.35 | 77.85 | 79.85 | 81.60 | 83.00 |
| 31 1/2 | 49.00 | 58.60 | 60.50 | 67.00 | 78.60 | 80.60 | 82.35 | 83.75 |
| 32 | 49.50 | 59.20 | 61.10 | 67.65 | 79.35 | 81.35 | 83.10 | 84.50 |
| 32 1/4 | 50.00 | 59.80 | 61.70 | 68.30 | 80.10 | 82.10 | 83.85 | 85.25 |
| 32 1/2 | 50.50 | 60.40 | 62.30 | 68.95 | 80.85 | 82.85 | 84.60 | 86.00 |
| 33 | 51.00 | 61.00 | 62.90 | 69.60 | 81.60 | 83.60 | 85.35 | 86.75 |
| 33 1/4 | 51.50 | 61.60 | 63.50 | 70.25 | 82.35 | 84.35 | 86.10 | 87.50 |
| 33 1/2 | 52.00 | 62.20 | 64.10 | 70.90 | 83.10 | 85.10 | 86.85 | 88.25 |
| 34 | 52.50 | 62.80 | 64.70 | 71.55 | 83.85 | 85.85 | 87.60 | 89.00 |
| 34 1/4 | 53.00 | 63.40 | 65.30 | 72.20 | 84.60 | 86.60 | 88.35 | 89.75 |
| 34 1/2 | 53.50 | 64.00 | 65.90 | 72.85 | 85.35 | 87.35 | 89.10 | 90.50 |
| 35 | 54.00 | 64.60 | 66.50 | 73.50 | 86.10 | 88.10 | 89.85 | 91.25 |
| 35 1/4 | 54.50 | 65.20 | 67.10 | 74.15 | 86.85 | 88.85 | 90.60 | 92.00 |
| 35 1/2 | 55.00 | 65.80 | 67.70 | 74.80 | 87.60 | 89.60 | 91.35 | 92.75 |
| 36 | 55.50 | 66.40 | 68.30 | 75.45 | 88.35 | 90.35 | 92.10 | 93.50 |
| 36 1/4 | 56.00 | 67.00 | 68.90 | 76.10 | 89.10 | 91.10 | 92.85 | 94.25 |
| 36 1/2 | 56.50 | 67.60 | 69.50 | 76.75 | 89.85 | 91.85 | 93.60 | 95.00 |
| 37 | 57.00 | 68.20 | 70.10 | 77.40 | 90.60 | 92.60 | 94.35 | 95.75 |
| 37 1/4 | 57.50 | 68.80 | 70.70 | 78.05 | 91.35 | 93.35 | 95.10 | 96.50 |
| 37 1/2 | 58.00 | 69.40 | 71.30 | 78.70 | 92.10 | 94.10 | 95.85 | 97.25 |
| 38 | 58.50 | 70.00 | 71.90 | 79.35 | 92.85 | 94.85 | 96.60 | 98.00 |
| 38 1/4 | 59.00 | 70.60 | 72.50 | 80.00 | 93.60 | 95.60 | 97.35 | 98.75 |
| 38 1/2 | 59.50 | 71.20 | 73.10 | 80.65 | 94.35 | 96.35 | 98.10 | 99.50 |
| 39 | 60.00 | 71.80 | 73.70 | 81.30 | 95.10 | 97.10 | 98.85 | 100.25 |
| 39 1/4 | 60.50 | 72.40 | 74.30 | 81.95 | 95.85 | 97.85 | 99.60 | 101.00 |
| 39 1/2 | 61.00 | 73.00 | 74.90 | 82.60 | 96.60 | 98.60 | 100.35 | 101.75 |
| 40 | 61.50 | 73.60 | 75.50 | 83.25 | 97.35 | 99.35 | 101.10 | 102.50 |
| 40 1/4 | 62.00 | 74.20 | 76.10 | 83.90 | 98.10 | 100.10 | 101.85 | 103.25 |
| 40 1/2 | 62.50 | 74.80 | 76.70 | 84.55 | 98.85 | 100.85 | 102.60 | 104.00 |
| 41 | 63.00 | 75.40 | 77.30 | 85.20 | 99.60 | 101.60 | 103.35 | 104.75 |
| 41 1/4 | 63.50</ | | | | | | | |

CAP SCREWS

BRASS, HEXAGON HEAD



Per 100

| Diam. Screw In. | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ |
|-----------------|---------------|----------------|---------------|----------------|---------------|
| Length | | | | | |
| $\frac{3}{4}$ | \$6.80 | \$7.80 | \$8.30 | \$ 9.50 | \$10.80 |
| 1 | 7.00 | 7.90 | 8.70 | 10.10 | 11.50 |
| $1\frac{1}{4}$ | 7.10 | 8.20 | 9.10 | 10.60 | 12.70 |
| $1\frac{1}{2}$ | 7.30 | 8.50 | 9.50 | 11.10 | 13.00 |
| 2 | 7.70 | 9.10 | 10.30 | 12.20 | 14.30 |
| $2\frac{1}{2}$ | 8.10 | 9.70 | 11.10 | 13.30 | 15.80 |

NOTE

Hexagon Brass Cap Screws can be Furnished with Hexagon Brass Nuts to be Used as Machine Bolts at Following Extra Per 100.

| | | | | | |
|-----------------|---------------|----------------|---------------|----------------|---------------|
| Bolt Diam., In. | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ |
| Per 100 | \$2.30 | 3.10 | 4.90 | 6.90 | 9.20 |

SET SCREWS

CASE HARDENED



Square Head, Cup Point.



Headless, Slotted, Cup Point.

U. S. S. Standard Thread—Per 100
Standard List Effective Feb. 1, 1924

| Dia. of Head | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| Hght of Head | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Thrd's to Inch | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 9 |
| Dia. of Screw | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Length | | | | | | | | | |
| $\frac{3}{4}$ | \$2.80 | 3.15 | 3.65 | 4.15 | 4.65 | 5.15 | 5.65 | 6.15 | 6.65 |
| $\frac{1}{2}$ | 2.85 | 3.20 | 3.70 | 4.20 | 4.70 | 5.20 | 5.70 | 6.20 | 6.70 |
| $\frac{3}{8}$ | 2.90 | 3.25 | 3.75 | 4.25 | 4.75 | 5.25 | 5.75 | 6.25 | 6.75 |
| $\frac{1}{4}$ | 3.10 | 3.40 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 |
| 1 | 3.25 | 3.55 | 4.30 | 5.05 | 5.80 | 6.55 | 7.30 | 8.05 | 8.80 |
| $1\frac{1}{4}$ | 3.60 | 3.90 | 4.80 | 5.65 | 6.50 | 7.35 | 8.20 | 9.05 | 9.90 |
| $1\frac{1}{2}$ | 3.95 | 4.20 | 5.25 | 6.15 | 7.05 | 7.95 | 8.85 | 9.75 | 10.65 |
| $1\frac{3}{4}$ | 4.25 | 4.70 | 5.90 | 7.25 | 8.60 | 9.95 | 11.30 | 12.65 | 14.00 |
| 2 | 4.55 | 5.20 | 6.55 | 7.90 | 9.30 | 10.70 | 12.10 | 13.50 | 14.90 |
| $2\frac{1}{4}$ | 4.80 | 5.65 | 7.15 | 8.65 | 10.15 | 11.65 | 13.15 | 14.65 | 16.15 |
| $2\frac{1}{2}$ | 5.10 | 6.15 | 7.75 | 9.45 | 11.15 | 12.85 | 14.55 | 16.25 | 17.95 |
| $2\frac{3}{4}$ | 5.35 | 6.60 | 8.40 | 10.15 | 12.15 | 14.15 | 16.15 | 18.15 | 20.15 |
| 3 | 5.65 | 7.10 | 9.00 | 10.90 | 12.95 | 15.00 | 17.05 | 19.10 | 21.15 |
| $3\frac{1}{4}$ | 5.95 | 7.50 | 9.55 | 11.65 | 13.80 | 15.95 | 18.10 | 20.25 | 22.40 |
| $3\frac{1}{2}$ | 6.25 | 7.90 | 10.10 | 12.35 | 14.65 | 16.95 | 19.25 | 21.55 | 23.85 |
| $3\frac{3}{4}$ | 6.55 | 8.30 | 10.65 | 13.05 | 15.45 | 17.85 | 20.25 | 22.65 | 25.05 |
| 4 | 6.85 | 8.70 | 11.15 | 13.75 | 16.25 | 18.75 | 21.25 | 23.75 | 26.25 |
| $4\frac{1}{4}$ | 7.15 | 9.10 | 11.70 | 14.45 | 17.05 | 19.65 | 22.25 | 24.85 | 27.45 |
| $4\frac{1}{2}$ | 7.45 | 9.50 | 12.25 | 15.15 | 17.85 | 20.55 | 23.15 | 25.85 | 28.55 |
| $4\frac{3}{4}$ | 7.75 | 9.90 | 12.80 | 15.85 | 18.65 | 21.45 | 24.15 | 26.95 | 29.65 |
| 5 | 8.05 | 10.30 | 13.35 | 16.55 | 19.45 | 22.35 | 25.15 | 28.05 | 30.75 |

BIBB SCREWS

Brass, Assorted

Per Assortment

Peerless Handy Can—Consist of One Gross Assorted Brass Bibb Screws Put Up in a Friction Top Can, Handy for the Plumber or Repair Man's Kit. . . \$1.60



CAP AND SET SCREW ASSORTMENTS

CAP SCREWS



S. A. E. Standard Thread Per Assortment

No. 4 Assortment—Consists of 50 Assorted S. A. E. Thread Cap Screws, as Enumerated Below, Put Up in a Strong Package. . . \$2.00

Contents of No. 4 Assortment

| | |
|--|---|
| 3 Each $\frac{1}{4}$ x 1, $1\frac{1}{4}$. | 3 Each $\frac{3}{8}$ x $1\frac{1}{4}$. |
| 3 Each $\frac{5}{16}$ x 1, $1\frac{1}{4}$, $1\frac{1}{2}$. | 3 Each $\frac{1}{2}$ x $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$. |
| 4 Each $\frac{3}{8}$ x $1\frac{1}{4}$, $1\frac{1}{2}$. | 3 Each $\frac{1}{2}$ x $1\frac{1}{2}$, $1\frac{3}{4}$, 2, $2\frac{1}{4}$, $2\frac{1}{2}$. |

U. S. Standard Thread Per Assortment

No. 3 Assortment—Consists of 50 Assorted U. S. S. Thread Cap Screws, as Enumerated Below, Put Up in a Strong Package. . . \$2.00

Contents of No. 3 Assortment

| | |
|---|--|
| 3 Each $\frac{1}{4}$ x $1\frac{1}{2}$, $\frac{3}{4}$. | 3 Each $\frac{3}{8}$ x $1\frac{1}{4}$, $1\frac{1}{2}$. |
| 4 Each $\frac{5}{16}$ x $\frac{3}{4}$, 1. | 2 Each $\frac{1}{2}$ x $\frac{3}{4}$, 1, $1\frac{1}{4}$. |
| 7 Each $\frac{3}{8}$ x $\frac{3}{4}$. | 3 Each $\frac{1}{2}$ x 1. |
| 6 Each $\frac{3}{8}$ x 1. | 4 Each $\frac{1}{2}$ x $1\frac{1}{4}$, $1\frac{1}{2}$. |

SET SCREWS

U. S. Standard Thread Per Assortment

No. 1 Assortment—Consists of 100 Assorted U. S. S. Thread Case Hardened Cup Point Set Screws, as Enumerated Below, Put Up in a Strong Package. . . \$4.00

| | |
|--|--|
| 3 Each $\frac{1}{4}$ x $1\frac{1}{2}$, $\frac{3}{4}$, 1. | 3 Each $\frac{5}{16}$ x $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$. |
| 3 Each $\frac{5}{16}$ x $1\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$. | 5 Each $\frac{1}{2}$ x $\frac{3}{4}$, $1\frac{1}{4}$, $1\frac{1}{2}$. |
| 3 Each $\frac{3}{8}$ x $1\frac{1}{2}$. | 8 Each $\frac{1}{2}$ x 1. |
| 10 Each $\frac{3}{8}$ x $\frac{3}{4}$, 1, $1\frac{1}{4}$. | 3 Each $\frac{1}{2}$ x $1\frac{1}{4}$, 2. |
| 5 Each $\frac{3}{8}$ x $1\frac{1}{2}$. | |

SAFETY SET SCREWS

ALLEN, HOLLOW



Cold Drawn, Hexagon Hole, Cup Point

Eight Wrenches Free with Each 100 Set Screws Except 1 in. Size, on which Four are Furnished.

| | | | | | | | |
|--------------------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| Diam. Screw, In. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Length Screw, In. | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Size Hex. Hole, In. | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| U. S. S. Threads. | 20 | 18 | 18 | 16 | 16 | 14 | 14 |
| Screws Per 100 | \$5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 6.00 | 6.00 |
| Ex. Wrenches . . . Each. | .03 | .04 | .04 | .05 | .05 | .06 | .06 |

| | | | | | | | |
|--------------------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| Diam. Screw, In. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Length Screw, In. | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Size Hex. Hole, In. | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| U. S. S. Threads. | 14 | 13-12 | 13-12 | 12 | 11 | 11 | 11 |
| Screws Per 100 | \$6.00 | 7.00 | 7.00 | 8.00 | 10.00 | 10.00 | 10.00 |
| Ex. Wrenches . . . Each. | .06 | .07 | .07 | .07 | .08 | .08 | .08 |

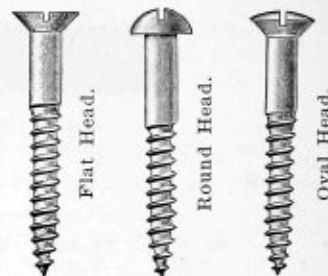
| | | | | | | | |
|--------------------------|---------------|---------------|---------------|----------------|---------------|----------------|----------------|
| Diam. Screw, In. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | 1 | 1 | 1 |
| Length Screw, In. | $\frac{3}{4}$ | 1 | $\frac{1}{2}$ | $1\frac{1}{4}$ | 1 | $1\frac{1}{4}$ | $1\frac{1}{4}$ |
| Size Hex. Hole, In. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| U. S. S. Threads. | 10 | 10 | 9 | 9 | 8 | 8 | 8 |
| Screws Per 100 | \$13.00 | 12.00 | 15.00 | 18.00 | 20.00 | 22.00 | 22.00 |
| Ex. Wrenches . . . Each. | .10 | .10 | .12 | .12 | .15 | .15 | .15 |

IRON WOOD SCREWS

FLAT, ROUND AND OVAL HEAD



Cuts All Full Size, 1 in. Length.



List of June 24, 1922. Weights Pounds and Price Per Gross

| $\frac{1}{4}$ Inch | | | $\frac{3}{8}$ Inch | | | $\frac{1}{2}$ Inch | | | $\frac{5}{8}$ Inch | | | $\frac{3}{4}$ Inch | | | $\frac{7}{8}$ Inch | | | 1 Inch | | |
|--------------------|-----|--------|--------------------|-----|--------|--------------------|-----|--------|--------------------|-----|--------|--------------------|------|--------|--------------------|------|--------|--------|------|--------|
| No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. |
| 0 | .03 | \$0.90 | 0 | .04 | \$0.90 | 1 | .07 | \$0.90 | 2 | .12 | \$0.90 | 2 | .14 | \$0.90 | 3 | .20 | \$0.95 | 3 | .23 | \$0.95 |
| 1 | .04 | .90 | 1 | .05 | .90 | 2 | .10 | .90 | 3 | .16 | .90 | 3 | .18 | .90 | 4 | .26 | .95 | 4 | .30 | 1.00 |
| 2 | .06 | .90 | 2 | .08 | .90 | 3 | .13 | .90 | 4 | .20 | .90 | 4 | .23 | .95 | 5 | .34 | 1.00 | 5 | .38 | 1.05 |
| 3 | .08 | .90 | 3 | .10 | .90 | 4 | .17 | .90 | 5 | .25 | .95 | 5 | .29 | .95 | 6 | .41 | 1.05 | 6 | .47 | 1.10 |
| 4 | .10 | .90 | 4 | .13 | .90 | 5 | .21 | .90 | 6 | .31 | .95 | 6 | .36 | 1.00 | 7 | .50 | 1.10 | 7 | .57 | 1.15 |
| | | | 5 | .17 | .90 | 6 | .26 | .90 | 7 | .38 | 1.00 | 7 | .44 | 1.05 | 8 | .60 | 1.15 | 8 | .68 | 1.20 |
| | | | 6 | .20 | .90 | 7 | .31 | .95 | 8 | .45 | 1.05 | 8 | .53 | 1.10 | 9 | .71 | 1.20 | 9 | .80 | 1.25 |
| | | | 7 | .25 | .90 | 8 | .38 | 1.00 | 9 | .53 | 1.10 | 9 | .62 | 1.15 | 10 | .83 | 1.25 | 10 | .93 | 1.30 |
| | | | 8 | .30 | .90 | 9 | .45 | 1.05 | 10 | .63 | 1.15 | 10 | .73 | 1.20 | 11 | .96 | 1.25 | 11 | 1.07 | 1.35 |
| | | | | | | 10 | .52 | 1.10 | 11 | .72 | 1.20 | 11 | .84 | 1.25 | 12 | 1.10 | 1.35 | 12 | 1.23 | 1.40 |
| | | | | | | | | | 12 | .83 | 1.25 | 12 | .96 | 1.30 | 14 | 1.41 | 1.50 | 14 | 1.57 | 1.60 |
| | | | | | | | | | | | | 14 | 1.24 | 1.40 | | | | 16 | 1.96 | 1.85 |

| $1\frac{1}{4}$ Inch | | | $1\frac{1}{2}$ Inch | | | $1\frac{3}{4}$ Inch | | | 2 Inch | | | $2\frac{1}{4}$ Inch | | | $2\frac{1}{2}$ Inch | | |
|---------------------|------|--------|---------------------|------|--------|---------------------|------|--------|--------|------|--------|---------------------|------|--------|---------------------|------|--------|
| No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. |
| 4 | .37 | \$1.10 | 4 | .44 | \$1.20 | 6 | .79 | \$1.40 | 6 | .89 | \$1.55 | 6 | 1.00 | \$1.75 | 6 | 1.10 | \$1.95 |
| 5 | .46 | 1.15 | 5 | .55 | 1.25 | 7 | .95 | 1.45 | 7 | 1.08 | 1.60 | 7 | 1.20 | 1.80 | 7 | 1.33 | 2.00 |
| 6 | .57 | 1.20 | 6 | .68 | 1.30 | 8 | 1.13 | 1.50 | 8 | 1.28 | 1.65 | 8 | 1.43 | 1.85 | 8 | 1.58 | 2.05 |
| 7 | .69 | 1.25 | 7 | .82 | 1.35 | 9 | 1.32 | 1.60 | 9 | 1.50 | 1.75 | 9 | 1.68 | 1.95 | 9 | 1.86 | 2.15 |
| 8 | .83 | 1.30 | 8 | .98 | 1.40 | 10 | 1.54 | 1.70 | 10 | 1.74 | 1.85 | 10 | 1.94 | 2.05 | 10 | 2.15 | 2.25 |
| 9 | .97 | 1.35 | 9 | 1.15 | 1.45 | 11 | 1.77 | 1.80 | 11 | 2.00 | 2.00 | 11 | 2.23 | 2.20 | 11 | 2.46 | 2.40 |
| 10 | 1.13 | 1.40 | 10 | 1.34 | 1.50 | 12 | 2.02 | 2.00 | 12 | 2.28 | 2.20 | 12 | 2.54 | 2.40 | 12 | 2.81 | 2.60 |
| 11 | 1.30 | 1.50 | 11 | 1.54 | 1.60 | 14 | 2.57 | 2.25 | 14 | 2.90 | 2.50 | 14 | 3.23 | 2.75 | 14 | 3.56 | 3.00 |
| 12 | 1.49 | 1.60 | 12 | 1.75 | 1.80 | 16 | 3.19 | 2.60 | 16 | 3.59 | 2.90 | 16 | 4.00 | 3.20 | 16 | 4.41 | 3.50 |
| 14 | 1.90 | 1.80 | 14 | 2.23 | 2.05 | 18 | 3.88 | 3.05 | 18 | 4.37 | 3.40 | 18 | 4.86 | 3.75 | 18 | 5.35 | 4.10 |
| 16 | 2.27 | 2.05 | 16 | 2.78 | 2.35 | 20 | 4.65 | 3.60 | 20 | 5.24 | 4.00 | 20 | 5.82 | 4.40 | 20 | 6.40 | 4.80 |
| 18 | 2.90 | 2.40 | 18 | 3.39 | 2.75 | | | | | | | | | | | | |
| | | | 20 | 4.07 | 3.25 | | | | | | | | | | | | |

| $2\frac{3}{4}$ Inch | | | 3 Inch | | | $3\frac{1}{2}$ Inch | | | 4 Inch | | | $4\frac{1}{2}$ Inch | | | 5 Inch | | |
|---------------------|------|--------|--------|-------|--------|---------------------|-------|--------|--------|-------|--------|---------------------|-------|--------|--------|-------|--------|
| No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. | No. | Wt. | Gro. |
| 8 | 1.73 | \$2.15 | 8 | 1.88 | \$2.45 | 10 | 2.96 | \$3.00 | 12 | 4.39 | \$3.80 | 14 | 6.21 | \$5.10 | 14 | 6.93 | \$5.75 |
| 9 | 2.03 | 2.25 | 9 | 2.20 | 2.55 | 11 | 3.39 | 3.20 | 14 | 5.55 | 4.50 | 16 | 7.67 | 5.90 | 16 | 8.48 | 6.70 |
| 10 | 2.35 | 2.45 | 10 | 2.55 | 2.65 | 12 | 3.86 | 3.40 | 16 | 6.85 | 5.20 | 18 | 9.28 | 6.90 | 18 | 10.27 | 7.80 |
| 11 | 2.70 | 2.60 | 11 | 2.93 | 2.80 | 14 | 4.88 | 4.00 | 18 | 8.30 | 6.10 | 20 | 11.06 | 8.00 | 20 | 12.23 | 9.00 |
| 12 | 3.07 | 2.80 | 12 | 3.33 | 3.00 | 16 | 6.04 | 4.60 | 20 | 9.90 | 7.10 | 24 | 15.12 | 10.70 | 24 | 16.94 | 11.90 |
| 14 | 3.89 | 3.25 | 14 | 4.22 | 3.50 | 18 | 7.32 | 5.40 | 24 | 13.54 | 9.50 | | | | | | |
| 16 | 4.86 | 3.80 | 16 | 5.22 | 4.10 | 20 | 8.73 | 6.30 | | | | | | | | | |
| 18 | 5.85 | 4.45 | 18 | 6.34 | 4.80 | 24 | 11.96 | 8.40 | | | | | | | | | |
| 20 | 6.98 | 5.20 | 20 | 7.57 | 5.60 | | | | | | | | | | | | |
| | | | 24 | 10.38 | 7.40 | | | | | | | | | | | | |

Note—See Below for Screw Gauge in Decimals of an Inch.

Carried in Stock in: Flat Head Bright; Round Head Blued; Round Head Nickel Plated.

Lengths and diameters not listed are specials, but are furnished to the extent they may be in stock, or when required in sufficient quantities of a size to warrant being made to order. Such non-listed lengths and diameter take the list prices of the next longer or larger listed sizes.

The following varieties of Iron Screws are invoiced from this list at varying discounts: Flat, Round, Fillister, Piano and Oval Head Screws, Dowel, Winged, Headless, Pinched, Bung Head and Felloe Screws, Bright, Blued, Nickel Plated, Silver Plated, Brased, Bronzed, Coppered, Japanned, Lacquered, Tinned, Galvanized and Sheradized.

IRON DRIVE SCREWS



Drive Screws are driven in with a hammer like nails, but they have a greater holding power and can be withdrawn with an ordinary screw driver.

They are made in iron, flat head only, from $\frac{1}{2}$ to 3 inch length; and conform with the listed diameters from 4 to 20 (screw gauge) in diameter.

Prices Same as Iron Wood Screws

SCREW GAUGE IN DECIMALS OF AN INCH

| No. | Inch | No. | Inch | No. | Inch | No. | Inch |
|-----|------|-----|------|-----|------|-----|------|
| 0 | .060 | 5 | .125 | 10 | .190 | 16 | .268 |
| 1 | .073 | 6 | .138 | 11 | .203 | 18 | .294 |
| 2 | .086 | 7 | .151 | 12 | .216 | 20 | .320 |
| 3 | .099 | 8 | .164 | 14 | .242 | 24 | .372 |
| 4 | .112 | 9 | .177 | | | | |

BRASS WOOD SCREWS



Flat Head.



Round Head.



Oval Head.

List of June 24, 1922

Weight of Brass Screws 8% Higher Than Iron on Preceding Page

Price Per Gross

| 1/4 Inch | | 3/8 Inch | | 1/2 Inch | | 5/8 Inch | | 3/4 Inch | | 7/8 Inch | | 1 Inch | | 1 1/4 Inch | |
|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|--------|-----------|------------|-----------|
| No. | Per Gross | No. | Per Gross | No. | Per Gross | No. | Per Gross | No. | Per Gross | No. | Per Gross | No. | Per Gross | No. | Per Gross |
| 0 | \$0.95 | 0 | \$0.95 | 1 | \$1.05 | 2 | \$1.20 | 2 | \$1.30 | 4 | \$1.50 | 4 | \$1.60 | 6 | \$2.30 |
| 1 | .95 | 1 | 1.00 | 2 | 1.10 | 3 | 1.25 | 3 | 1.35 | 5 | 1.65 | 5 | 1.80 | 7 | 2.60 |
| 2 | 1.00 | 2 | 1.05 | 3 | 1.15 | 4 | 1.30 | 4 | 1.40 | 6 | 1.85 | 6 | 2.00 | 8 | 2.95 |
| 3 | 1.00 | 3 | 1.10 | 4 | 1.20 | 5 | 1.40 | 5 | 1.50 | 7 | 2.10 | 7 | 2.25 | 9 | 3.30 |
| 4 | 1.05 | 4 | 1.15 | 5 | 1.30 | 6 | 1.55 | 6 | 1.70 | 8 | 2.35 | 8 | 2.55 | 10 | 3.65 |
| | | 5 | 1.20 | 6 | 1.40 | 7 | 1.75 | 7 | 1.90 | 9 | 2.60 | 9 | 2.85 | 11 | 4.10 |
| | | 6 | 1.30 | 7 | 1.55 | 8 | 1.95 | 8 | 2.15 | 10 | 2.90 | 10 | 3.15 | 12 | 4.60 |
| | | | | 8 | 1.75 | 9 | 2.15 | 9 | 2.40 | 11 | 3.20 | 11 | 3.50 | 14 | 5.65 |
| | | | | | | 10 | 2.40 | 10 | 2.65 | 12 | 3.55 | 12 | 3.90 | | |
| | | | | | | | | 11 | 2.95 | | | 14 | 4.75 | | |
| | | | | | | | | 12 | 3.25 | | | | | | |

| 1 1/2 Inch | | 1 3/4 Inch | | 2 Inch | | 2 1/4 Inch | | 2 1/2 Inch | | 3 Inch | |
|------------|-----------|------------|-----------|--------|-----------|------------|-----------|------------|-----------|------------|-----------|
| No. | Per Gross | No. | Per Gross | No. | Per Gross | No. | Per Gross | No. | Per Gross | No. | Per Gross |
| 6 | \$2.65 | 8 | \$3.75 | 8 | \$4.25 | 10 | \$5.95 | 10 | \$6.60 | 12 | \$9.75 |
| 7 | 3.00 | 9 | 4.25 | 9 | 4.75 | 11 | 6.70 | 11 | 7.40 | 14 | 12.00 |
| 8 | 3.35 | 10 | 4.80 | 10 | 5.35 | 12 | 7.50 | 12 | 8.25 | 16 | 14.70 |
| 9 | 3.75 | 11 | 5.40 | 11 | 6.00 | 14 | 9.30 | 14 | 10.25 | 18 | 17.70 |
| 10 | 4.20 | 12 | 6.10 | 12 | 6.80 | 16 | 11.30 | 16 | 13.00 | 3 1/2 Inch | |
| 11 | 4.70 | 14 | 7.45 | 14 | 8.35 | 18 | 13.60 | 18 | 15.00 | 12 | \$11.25 |
| 12 | 5.35 | | | 16 | 10.20 | | | | | 14 | 14.00 |
| 14 | 6.55 | | | 18 | 12.30 | | | | | 16 | 17.00 |
| | | | | | | | | | | 18 | 20.50 |

Lengths and diameters not listed are specials; but are furnished to the extent they may be in stock, or when required in sufficient quantities of a size to warrant being made to order. Such non-listed lengths and diameters take the list prices of the next longer or larger listed sizes.

The following varieties of Screws are invoiced from this list at varying discounts: Flat, Round and Oval Head Screws, of Brass, Bronze Metal, Nickel and Silver Plated on Brass.

Carried in Stock: Flat, Round and Oval Head Brass, and Flat, Round and Oval Head Brass Nickel Plated.

SHEET METAL SCREWS

PARKER-KALON HARDENED

Parker Hardened Sheet Metal Screws are used in place of stove bolts and rivets for joining and making fastenings to sheet metal. They are threaded clear up to the head so they may be turned till the head is flush with the metal. They draw up tight and stay tight, all that is necessary is to punch a hole slightly smaller than the screw with an ordinary prick punch, or use the stop punch illustrated below.



PARKER STOP PUNCH

| Round Head | | 10 | | 14 | | 14 | |
|-------------|--|--------|-----|------|-------|------|-------|
| Nos. | | 6 | 7 | 10 | 14 | 14 | |
| Length, In. | | 3/8 | 1/2 | 3/4 | 1 1/4 | 3/8 | 1 1/2 |
| Diam., In. | | 3/8 | 1/2 | 3/4 | 1 1/4 | 3/8 | 1 1/2 |
| Per Gross | | \$0.76 | .82 | 1.08 | 1.34 | 1.32 | 1.70 |

One Gross in a Box.



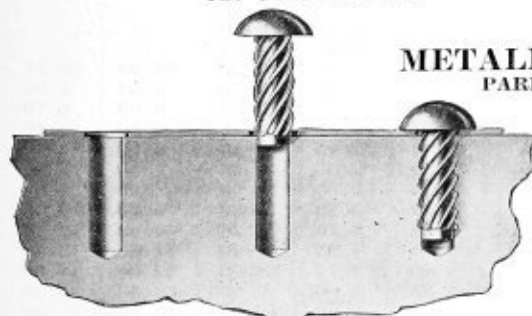
In order to obtain satisfactory results, it is important that the holes be made neither too large nor too small. The Stop Punch makes the hole exactly right.

Stop Punch—Made in Four Sizes, One Each for Each Diameter, Namely 6, 7, 10 and 14. \$0.38

METALLIC DRIVE SCREWS

PARKER-KALON HARDENED

Parker Hardened Drive Screws will cut their own threads and turn in drilled holes in steel, cast iron, die casting metals and other material such as slate, marble, etc., under the blow of a hammer. It entirely eliminates the tapping operation, the most costly item in using machine screws. Their hardened thread, cutting into the material makes a positive fastening—as strong as, or stronger than machine screws. This is a distinct advantage in attaching name plates and similar articles.



Nos. 00 to 6 Inclusive Furnished Brass Plated Finish, Nos. 7 to 14 Inclusive Furnished in Plain Steel

| Dia. | Length, | Hole | Drill | Per | Dia. | Length, | Hole | Drill | Per | Dia. | Length, | Hole | Drill | Per |
|------|---------|------|-------|--------|------|---------|------|-------|--------|------|---------|------|-------|--------|
| No. | Inches | Req. | No. | 1000 | No. | Inches | Req. | No. | 1000 | No. | Inches | Req. | No. | 1000 |
| 00 | 1/8 | .052 | 55 | \$0.86 | 4 | 1/4 | .104 | 37 | \$1.42 | 8 | 5/8 | .144 | 27 | \$2.47 |
| 00 | 3/16 | .052 | 55 | .86 | 4 | 5/16 | .104 | 37 | 1.42 | 10 | 3/8 | .160 | 20 | 2.75 |
| 00 | 1/4 | .052 | 55 | .86 | 6 | 3/8 | .120 | 31 | 1.62 | 10 | 1/2 | .160 | 20 | 2.75 |
| 0 | 5/16 | .067 | 51 | .93 | 6 | 7/8 | .120 | 31 | 1.62 | 10 | 5/8 | .160 | 20 | 2.75 |
| 0 | 3/8 | .067 | 51 | .93 | 6 | 1 1/8 | .120 | 31 | 1.62 | 12 | 1 1/2 | .196 | 9 | 3.05 |
| 0 | 1/2 | .067 | 51 | .93 | 7 | 1 3/8 | .136 | 29 | 1.91 | 12 | 5/8 | .196 | 9 | 3.05 |
| 2 | 5/8 | .086 | 44 | 1.00 | 7 | 1 1/2 | .136 | 29 | 1.91 | 12 | 3/4 | .196 | 9 | 3.05 |
| 2 | 3/4 | .086 | 44 | 1.00 | 7 | 1 3/4 | .136 | 29 | 1.91 | 14 | 1 1/4 | .218 | 2 | 3.73 |
| 2 | 7/8 | .086 | 44 | 1.00 | 8 | 1 7/8 | .144 | 27 | 2.47 | 14 | 5/8 | .218 | 2 | 3.73 |
| 4 | 1 1/8 | .104 | 37 | 1.42 | 8 | 2 | .144 | 27 | 3.47 | 14 | 3/4 | .218 | 2 | 3.73 |

1000 in a Box.

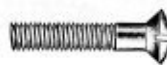
IRON MACHINE SCREWS



Flat Head.



Fillister Head.



Oval Head.



Round Head.

FLAT, FILLISTER, OVAL AND ROUND HEAD

List of June 15, 1921

List Per Gross

| Threads Per Inch | 56 64 | 48 56 | 36 40 | 40 44 | 32 40 | 32 36 | 24 32 | 24 28 | 20 28 | 18 24 | 16 24 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Diameter | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| Length | | | | | | | | | | | |
| 1/8 | \$0.30 | \$0.30 | \$0.30 | \$0.35 | \$0.35 | \$0.40 | | | | | |
| 1/4 | .30 | .30 | .30 | .35 | .35 | .40 | \$0.60 | | | | |
| 3/8 | .32 | .32 | .32 | .37 | .37 | .44 | .65 | \$0.75 | \$1.15 | | |
| 1/2 | .32 | .32 | .32 | .37 | .37 | .44 | .65 | .75 | 1.15 | | |
| 5/8 | .34 | .34 | .34 | .39 | .39 | .48 | .70 | .80 | 1.20 | | |
| 3/4 | .34 | .34 | .34 | .39 | .39 | .48 | .70 | .80 | 1.20 | \$2.00 | \$2.40 |
| 7/8 | .37 | .37 | .37 | .42 | .42 | .52 | .75 | .85 | 1.25 | 2.10 | 2.50 |
| 1 | .41 | .41 | .41 | .46 | .46 | .56 | .80 | .90 | 1.30 | 2.20 | 2.60 |
| 1 1/8 | .45 | .45 | .45 | .50 | .50 | .60 | .85 | .95 | 1.40 | 2.30 | 2.70 |
| 1 1/4 | | | .50 | .55 | .55 | .65 | .90 | 1.00 | 1.50 | 2.40 | 2.80 |
| 1 1/2 | | | .55 | .60 | .60 | .70 | 1.00 | 1.10 | 1.60 | 2.60 | 3.00 |
| 1 3/4 | | | .60 | .65 | .65 | .75 | 1.10 | 1.20 | 1.75 | 2.80 | 3.20 |
| 2 | | | .70 | .75 | .75 | .85 | 1.30 | 1.40 | 2.10 | 3.20 | 3.60 |
| 2 1/4 | | | | .95 | .95 | 1.05 | 1.50 | 1.60 | 2.50 | 3.60 | 4.20 |
| 2 1/2 | | | | 1.15 | 1.15 | 1.25 | 1.70 | 1.80 | 2.90 | 4.00 | 4.60 |
| 2 3/4 | | | | | | 1.45 | 1.90 | 2.20 | 3.30 | 4.40 | 4.80 |
| 3 | | | | | | 1.65 | 2.20 | 2.50 | 3.50 | 4.90 | 5.30 |
| | | | | | | 1.90 | 2.50 | 2.90 | 4.00 | 5.40 | 5.90 |
| | | | | | | 2.30 | 2.90 | 3.50 | 4.50 | 6.00 | 7.40 |

BRASS MACHINE SCREWS



Flat Head.



Fillister Head.



Oval Head.



Round Head.

FLAT, FILLISTER, OVAL AND ROUND HEAD

List of June 15, 1921

List Per Gross

| Threads Per Inch | 56 64 | 48 56 | 36 40 | 40 44 | 32 40 | 32 36 | 24 32 | 24 28 | 20 28 | 18 24 | 16 24 |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Diameter | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| Length | | | | | | | | | | | |
| 1/8 | \$0.32 | \$0.32 | \$0.36 | \$0.46 | \$0.46 | | | | | | |
| 1/4 | .32 | .32 | .36 | .46 | .46 | \$0.70 | | | | | |
| 3/8 | .32 | .32 | .36 | .46 | .46 | .70 | \$1.00 | | | | |
| 1/2 | .34 | .34 | .38 | .49 | .49 | .75 | 1.05 | \$1.35 | \$2.80 | | |
| 5/8 | .36 | .36 | .40 | .52 | .52 | .80 | 1.10 | 1.45 | 2.90 | | |
| 3/4 | .38 | .38 | .42 | .55 | .55 | .85 | 1.15 | 1.55 | 3.05 | | |
| 7/8 | .40 | .40 | .44 | .58 | .58 | .90 | 1.25 | 1.65 | 3.20 | \$5.00 | \$5.75 |
| 1 | .46 | .46 | .50 | .66 | .66 | 1.00 | 1.45 | 1.85 | 3.50 | 5.50 | 6.50 |
| 1 1/8 | .52 | .52 | .56 | .74 | .74 | 1.10 | 1.65 | 2.05 | 3.80 | 6.00 | 6.70 |
| 1 1/4 | .58 | .58 | .62 | .82 | .82 | 1.20 | 1.85 | 2.25 | 4.10 | 6.50 | 7.40 |
| 1 1/2 | | | .70 | .90 | .90 | 1.30 | 2.05 | 2.45 | 4.40 | 7.00 | 8.50 |
| 1 3/4 | | | .80 | 1.05 | 1.05 | 1.45 | 2.20 | 2.65 | 4.65 | 7.50 | 9.00 |
| 2 | | | .90 | 1.20 | 1.20 | 1.60 | 2.35 | 2.85 | 4.90 | 8.00 | 9.90 |
| 2 1/4 | | | 1.10 | 1.50 | 1.50 | 1.90 | 2.65 | 3.25 | 5.50 | 9.00 | 12.00 |
| 2 1/2 | | | | 1.90 | 1.90 | 2.30 | 3.05 | 3.75 | 6.20 | 10.00 | 12.70 |
| 2 3/4 | | | | 2.30 | 2.30 | 2.70 | 3.45 | 4.25 | 7.00 | 11.00 | 13.50 |
| 3 | | | | | | 3.10 | 3.85 | 4.75 | 8.00 | 12.00 | 14.90 |
| | | | | | | | 4.65 | 5.80 | 9.00 | 13.50 | 15.50 |
| | | | | | | | 6.00 | 7.00 | 10.00 | 15.00 | 17.00 |
| | | | | | | | 7.50 | 8.50 | 11.00 | 16.50 | 19.00 |

Carried in Stock—Nickel Plated, Brass Machine Screws, all kinds and sizes; Bronze and Special Finishes can be furnished to order.

Lengths, diameters and threads per inch not listed are special; but are furnished to the extent that they may be in stock, or when required in sufficient quantities of a size to warrant being made to order. Such non-listed lengths and diameters priced depending upon quantity.

Coarse thread pitches shown in heavy face type are furnished regularly. Their use is recommended. Fine thread pitches shown in light face type can be furnished. Round and Fillister Head Screws are measured from under Head, Flat Head are measured over all.

SCREW GAUGE IN DECIMALS OF AN INCH

| Nos. | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |
|--------|------|------|------|------|------|------|------|------|------|
| Inches | .086 | .099 | .112 | .125 | .138 | .164 | .190 | .216 | .242 |

MACHINE SCREW NUTS

HEXAGON



List of August 15, 1921.
Tapped, Cold Punched, Iron and Brass
Price Per Gross

| Nos. | Thread | Diam., In. | Thick-ness, In. | Iron | Brass |
|---------------|--------|----------------|-----------------|--------|--------|
| 2 | 36 | $\frac{3}{16}$ | $\frac{1}{16}$ | \$0.50 | \$1.51 |
| 3 | 48 | $\frac{1}{8}$ | $\frac{1}{16}$ | .50 | 1.51 |
| 4 | 36 | $\frac{1}{4}$ | $\frac{3}{32}$ | .36 | 1.08 |
| 4 | 40 | $\frac{1}{4}$ | $\frac{3}{32}$ | .36 | 1.08 |
| 5 | 40 | $\frac{1}{2}$ | $\frac{3}{16}$ | .36 | 1.08 |
| 6 | 32 | $\frac{3}{8}$ | $\frac{1}{4}$ | .36 | 1.08 |
| 8 | 32 | $\frac{1}{2}$ | $\frac{1}{4}$ | .40 | 1.30 |
| 10 | 24-32 | $\frac{3}{8}$ | $\frac{1}{4}$ | .43 | 1.73 |
| 12 | 24 | $\frac{1}{2}$ | $\frac{3}{16}$ | .55 | 2.16 |
| $\frac{1}{4}$ | 20-28 | $\frac{1}{2}$ | $\frac{1}{4}$ | .72 | 2.81 |
| $\frac{1}{2}$ | 18-24 | $\frac{3}{4}$ | $\frac{3}{16}$ | 1.22 | 6.05 |
| $\frac{3}{8}$ | 16-24 | $\frac{5}{8}$ | $\frac{1}{4}$ | 1.58 | 8.21 |

SQUARE



Cold Punched

Iron and Brass

Tapped, Per Gross
List of August 15, 1921.

| Nos. | Thread | Outside Diam., In. | Thick-ness, In. | Iron | Brass |
|---------------|--------|--------------------|-----------------|--------|--------|
| 2 | 56 | $\frac{1}{16}$ | $\frac{1}{16}$ | \$0.42 | \$1.28 |
| 3 | 48 | $\frac{1}{8}$ | $\frac{1}{16}$ | .42 | 1.28 |
| 4 | 36 | $\frac{1}{4}$ | $\frac{3}{32}$ | .31 | .92 |
| 4 | 40 | $\frac{1}{4}$ | $\frac{3}{32}$ | .31 | .92 |
| 5 | 40 | $\frac{1}{2}$ | $\frac{3}{16}$ | .31 | .92 |
| 6 | 32 | $\frac{3}{8}$ | $\frac{1}{4}$ | .31 | .92 |
| 8 | 32 | $\frac{1}{2}$ | $\frac{1}{4}$ | .35 | 1.11 |
| 10 | 24-32 | $\frac{3}{8}$ | $\frac{1}{4}$ | .37 | 1.47 |
| 12 | 24 | $\frac{1}{2}$ | $\frac{3}{16}$ | .46 | 1.83 |
| $\frac{1}{4}$ | 20-28 | $\frac{1}{2}$ | $\frac{1}{4}$ | .62 | 2.39 |
| $\frac{1}{2}$ | 18-24 | $\frac{3}{4}$ | $\frac{3}{16}$ | 1.04 | 5.14 |
| $\frac{3}{8}$ | 16-24 | $\frac{5}{8}$ | $\frac{1}{4}$ | 1.35 | 6.98 |

All Above, One Gross in a Box.

STOVE BOLT NUTS

SQUARE



Cold Pressed and Tapped

| | | | | | | |
|-------------------------|---------------|---------------|----------------|---------------|----------------|---------------|
| Size, Inches..... | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{8}$ |
| Threads..... | 32 | 28 | 24 | 20 | 18 | 16 |
| Dia. Across Flats, In.. | .. | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{5}{8}$ |
| Thickness, Inches..... | .. | $\frac{1}{4}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{3}{16}$ | $\frac{1}{4}$ |
| Per 100..... | \$0.24 | .24 | .26 | .43 | .72 | .94 |

100 in a Box.

BRASS NUTS

SEMI-FINISHED HEXAGON

Full and Jam (or Check)

| Size | Diameter, Inches | Full Thick-ness, Inches | Jam, Thick-ness, Inches | Per 100 |
|-------------------|------------------|-------------------------|-------------------------|---------|
| $\frac{1}{4}$ -20 | $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{3}{16}$ | \$ 2.40 |
| $\frac{3}{8}$ -18 | $\frac{3}{8}$ | $\frac{3}{16}$ | $\frac{3}{16}$ | 3.20 |
| $\frac{1}{2}$ -16 | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 5.20 |
| $\frac{3}{4}$ -14 | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 7.20 |
| $\frac{1}{2}$ -12 | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | 9.60 |
| $\frac{1}{2}$ -13 | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{8}$ | 9.60 |
| $\frac{5}{8}$ -11 | $1 \frac{1}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | 17.00 |
| $\frac{3}{4}$ -10 | $1 \frac{1}{4}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 27.00 |

BRASS CAP NUTS

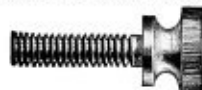
HEXAGON



Plain Brass and Nickel Plated Brass

| Size of Thread | Diam. Base, Inches | Height, Inches | Per 100 |
|--------------------------------------|--------------------|----------------|---------|
| 6-32, 8-32 | $\frac{1}{8}$ | $\frac{3}{16}$ | \$0.80 |
| 10-24, 12-24 | $\frac{3}{16}$ | $\frac{1}{4}$ | 1.00 |
| 14-20, $\frac{1}{4}$ -20 | $\frac{1}{4}$ | $\frac{3}{8}$ | 1.25 |
| $\frac{1}{4}$ -20 | $\frac{1}{2}$ | $\frac{3}{8}$ | 1.60 |
| $\frac{3}{8}$ -18, 20-18 | $\frac{3}{8}$ | $\frac{1}{2}$ | 2.00 |
| $\frac{1}{2}$ -16 | $\frac{5}{8}$ | $\frac{1}{2}$ | 2.80 |
| $\frac{3}{4}$ -14, $\frac{1}{2}$ -13 | $\frac{3}{4}$ | $\frac{1}{2}$ | 4.50 |
| $\frac{5}{8}$ -11 | $\frac{1}{2}$ | $\frac{3}{8}$ | 15.00 |

KNURLED BRASS SCREWS



Style No. 1, Per 100

| Size Thread | Diameter Head, In. | $\frac{1}{2}$ Inch | $\frac{3}{4}$ Inch | 1 Inch |
|-------------------|--------------------|--------------------|--------------------|--------|
| 4-36 | $\frac{1}{16}$ | \$1.50 | 1.90 | .. |
| 6-32 | $\frac{3}{16}$ | 1.75 | 2.10 | 2.50 |
| 8-32 | $\frac{1}{4}$ | 2.00 | 2.40 | 2.90 |
| 10-24 | $\frac{1}{4}$ | 2.40 | 2.80 | 3.30 |
| 12-24 | $\frac{1}{2}$ | 3.00 | 3.50 | 4.10 |
| $\frac{1}{4}$ -20 | $\frac{3}{16}$ | 3.50 | 4.20 | 5.00 |

KNURLED BRASS NUTS



| Size, Thr'd | Diam. Hd., In. | Hgt., In. | Per 100 | Size, Thr'd | Diam. Hd., In. | Hgt., In. | Per 100 |
|-------------|----------------|----------------|---------|-------------------|----------------|----------------|---------|
| 4-36 | $\frac{3}{16}$ | $\frac{3}{16}$ | \$1.20 | 10-32 | $\frac{1}{4}$ | $\frac{3}{16}$ | \$1.50 |
| 6-32 | $\frac{1}{8}$ | $\frac{1}{8}$ | 1.20 | 12-24 | $\frac{1}{2}$ | $\frac{3}{16}$ | 1.70 |
| 8-20 | $\frac{1}{8}$ | $\frac{1}{8}$ | 1.30 | $\frac{1}{4}$ -20 | $\frac{5}{8}$ | $\frac{3}{8}$ | 2.00 |
| 10-24 | $\frac{1}{2}$ | $\frac{1}{4}$ | 1.50 | | | | |

BRASS WING NUTS



Pressed, Smooth Finish

| Size No. | Size of Threads | Height to Top of Wings | Width Overall | Outside Diam. | Per 100 |
|----------|--------------------------|------------------------|------------------|----------------|---------|
| A | 4-36, 6-32, 8-32 | $\frac{1}{16}$ | $\frac{3}{4}$ | $\frac{3}{16}$ | \$1.50 |
| B | 10-24, 10-32 | $\frac{1}{16}$ | $\frac{1}{2}$ | $\frac{1}{4}$ | 1.80 |
| C | 12-24, $\frac{1}{4}$ -20 | $\frac{1}{16}$ | $1 \frac{1}{16}$ | $\frac{1}{2}$ | 2.25 |
| E | $\frac{3}{8}$ -18 | $\frac{1}{16}$ | $1 \frac{1}{2}$ | $\frac{3}{4}$ | 3.75 |
| F | $\frac{3}{8}$ -16 | $\frac{1}{16}$ | $1 \frac{3}{4}$ | $\frac{1}{2}$ | 5.50 |

STEEL WING NUTS

Pressed, Smooth Finish



Machine Screw Sizes

| No. of Screw..... | 6 | 8 | 10 | 10 | 12 |
|-------------------|--------|-----|-----|-----|-----|
| Threads..... | 32 | 32 | 24 | 32 | 24 |
| Per 100..... | \$1.25 | .90 | .90 | .90 | .90 |

Fractional Sizes

| Size, Inches..... | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
|-------------------|---------------|---------------|---------------|---------------|---------------|
| Threads..... | 24 | 20 | 28 | 18 | 24 |
| Per 100..... | \$0.90 | 1.00 | 1.00 | 1.25 | 1.25 |

| Size, Inches..... | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
|-------------------|---------------|---------------|---------------|---------------|
| Threads..... | 16 | 24 | 14 | 13 |
| Per 100..... | \$1.60 | 1.60 | 3.60 | 3.75 |

MALLEABLE IRON THUMB NUTS



Threaded

| Nos. | 30 | 31 | 32 | 33 |
|------------------|---------------|---------------|---------------|----------------|
| Size, Inches | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Threads Per Inch | 24 | 20 | 18 | 16 |
| Per 100 | \$1.10 | 1.30 | 1.60 | 2.15 |
| Nos. | 34 | 35 | 36 | 37 |
| Size, Inches | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $1\frac{1}{8}$ |
| Threads Per Inch | 14 | 13 | 11 | 10 |
| Per 100 | \$2.75 | 3.70 | 6.00 | 7.00 |

THUMB SCREWS

MALLEABLE IRON

No. 1
ThreadedPrice
Per 100

| Diam. Screw, In. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $1\frac{1}{8}$ |
|------------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| Width Head, In. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{3}{4}$ |
| Threads to Inch | 40 | 24 | 20 | 18 | 16 | 14 | 13 |
| Length Screw— | | | | | | | |
| 1 in. | \$3.10 | 1.70 | 2.10 | 2.70 | 3.40 | 4.60 | 5.80 |
| 1 1/2 in. | 2.20 | 2.70 | 3.40 | 4.20 | 5.80 | 7.20 | |
| 2 in. | 2.80 | 3.30 | 4.10 | 5.00 | 7.00 | 8.60 | |
| 2 1/2 in. | 4.30 | 5.20 | 6.20 | 8.60 | 10.40 | | |
| 3 in. | 5.30 | 6.30 | 7.40 | 10.20 | 12.20 | | |



SEMI-FINISHED NUTS

U. S. S. THREAD, HEXAGON

Tapped and Faced True on Bottom.

List Adopted September 1, 1923.

| Size Bolt, Inches | No. of Threads | Width, Inches | Thickness, Inches | Semi-Fin. Per 100 |
|-------------------|----------------|----------------|-------------------|-------------------|
| $\frac{1}{4}$ | 20 | $\frac{1}{2}$ | $\frac{1}{4}$ | \$ 2.00 |
| $\frac{3}{8}$ | 18 | $\frac{3}{4}$ | $\frac{3}{8}$ | 2.50 |
| $\frac{1}{2}$ | 16 | $\frac{1}{2}$ | $\frac{1}{2}$ | 3.25 |
| $\frac{5}{8}$ | 14 | $\frac{3}{4}$ | $\frac{3}{4}$ | 4.10 |
| $\frac{3}{4}$ | 13 | $\frac{1}{2}$ | $\frac{1}{2}$ | 5.00 |
| $\frac{7}{8}$ | 12 | $\frac{3}{4}$ | $\frac{3}{4}$ | 6.00 |
| $1\frac{1}{8}$ | 11 | $1\frac{1}{8}$ | $\frac{3}{4}$ | 6.50 |
| $1\frac{1}{4}$ | 10 | $1\frac{1}{4}$ | $\frac{3}{4}$ | 9.50 |
| $1\frac{3}{8}$ | 9 | $1\frac{3}{8}$ | $\frac{7}{8}$ | 13.50 |
| 1 | 8 | $1\frac{1}{2}$ | 1 | 20.00 |

S. A. E. THREAD, HEXAGON



Tapped and Faced True on Bottom

List Adopted Sept. 1, 1923.

| Screw Diam., In. | Thrs. Per In. | Width In. | Diam. Facing In. | Thick. Reg. In. | Per 100 |
|------------------|---------------|----------------|------------------|-----------------|---------|
| $\frac{1}{4}$ | 28 | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{3}{32}$ | \$2.00 |
| $\frac{3}{8}$ | 24 | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{16}$ | 2.50 |
| $\frac{1}{2}$ | 24 | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{3}{32}$ | 3.25 |
| $\frac{5}{8}$ | 20 | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{16}$ | 4.10 |
| $\frac{3}{4}$ | 20 | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{1}{8}$ | 5.00 |
| $\frac{7}{8}$ | 18 | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{32}$ | 6.00 |
| $1\frac{1}{8}$ | 18 | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{1}{16}$ | 6.50 |
| $1\frac{1}{4}$ | 16 | $1\frac{1}{8}$ | $1\frac{1}{8}$ | $\frac{3}{32}$ | 9.50 |
| $1\frac{3}{8}$ | 14 | $1\frac{1}{4}$ | $1\frac{1}{4}$ | $\frac{1}{16}$ | 13.50 |
| 1 | 14 | $1\frac{3}{8}$ | $1\frac{3}{8}$ | $\frac{3}{16}$ | 20.00 |

SEMI-FINISHED NUTS

U. S. S. THREAD, HEXAGON
JAMTapped and Faced True on
Bottom

List Adopted Sept. 1, 1923.



| Size Bolt, Inches | No. of Threads | Width, Inches | Thickness, Inches | Per 100 |
|-------------------|----------------|----------------|-------------------|---------|
| $\frac{1}{4}$ | 20 | $\frac{1}{2}$ | $\frac{1}{4}$ | \$ 2.00 |
| $\frac{3}{8}$ | 18 | $\frac{3}{4}$ | $\frac{3}{8}$ | 2.50 |
| $\frac{1}{2}$ | 16 | $\frac{1}{2}$ | $\frac{1}{2}$ | 3.25 |
| $\frac{5}{8}$ | 14 | $\frac{3}{4}$ | $\frac{3}{4}$ | 4.10 |
| $\frac{3}{4}$ | 13 | $\frac{1}{2}$ | $\frac{1}{2}$ | 5.00 |
| $\frac{7}{8}$ | 12 | $\frac{3}{4}$ | $\frac{3}{4}$ | 6.00 |
| $1\frac{1}{8}$ | 11 | $1\frac{1}{8}$ | $\frac{3}{4}$ | 6.50 |
| $1\frac{1}{4}$ | 10 | $1\frac{1}{4}$ | $\frac{3}{4}$ | 9.50 |
| $1\frac{3}{8}$ | 9 | $1\frac{3}{8}$ | $\frac{7}{8}$ | 13.50 |
| 1 | 8 | $1\frac{1}{2}$ | 1 | 20.00 |

HOT PRESSED NUTS

TREADED

U. S. Standard Thread

List Adopted September 1, 1923.

List Per Pound, in 200 Pound Kegs



Square.



Hexagon.

SQUARE

| For Bolt, Inches | Hole, Inches | Width, Inches | Thick., Inches | Number in Keg | Per Pound |
|------------------|----------------|----------------|----------------|---------------|-----------|
| $\frac{1}{4}$ | $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{1}{4}$ | 14760 | \$0.15 |
| $\frac{3}{8}$ | $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{3}{8}$ | 7915 | .135 |
| $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 5320 | .116 |
| $\frac{5}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 3400 | .109 |
| $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 2540 | .107 |
| $\frac{7}{8}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 1690 | .107 |
| $1\frac{1}{8}$ | $\frac{3}{4}$ | $1\frac{1}{8}$ | $\frac{3}{4}$ | 1440 | .100 |
| $1\frac{1}{4}$ | $\frac{7}{8}$ | $1\frac{1}{4}$ | $\frac{3}{4}$ | 880 | .092 |
| $1\frac{3}{8}$ | $1\frac{1}{8}$ | $1\frac{3}{8}$ | $\frac{7}{8}$ | 578 | .090 |
| 1 | $1\frac{1}{4}$ | 1 | 1 | 397 | .090 |
| $1\frac{1}{8}$ | $1\frac{1}{8}$ | $1\frac{1}{8}$ | $1\frac{1}{8}$ | 284 | .090 |
| $1\frac{1}{4}$ | $1\frac{1}{4}$ | 2 | $1\frac{1}{4}$ | 220 | .090 |
| $1\frac{3}{8}$ | $1\frac{3}{8}$ | $2\frac{1}{8}$ | $1\frac{3}{8}$ | 157 | .091 |
| $1\frac{1}{2}$ | $1\frac{1}{2}$ | $2\frac{1}{2}$ | $1\frac{1}{2}$ | 127 | .094 |

HEXAGON

| For Bolt, Inches | Hole, Inches | Width, Inches | Thick., Inches | Number in Keg | Per Pound |
|------------------|----------------|----------------|----------------|---------------|-----------|
| $\frac{1}{4}$ | $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{1}{4}$ | 18600 | \$0.225 |
| $\frac{3}{8}$ | $\frac{1}{4}$ | $\frac{3}{4}$ | $\frac{3}{8}$ | 9760 | .20 |
| $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 6400 | .156 |
| $\frac{5}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 4250 | .143 |
| $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 3200 | .135 |
| $\frac{7}{8}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | 2275 | .135 |
| $1\frac{1}{8}$ | $\frac{3}{4}$ | $1\frac{1}{8}$ | $\frac{3}{4}$ | 1630 | .124 |
| $1\frac{1}{4}$ | $\frac{7}{8}$ | $1\frac{1}{4}$ | $\frac{3}{4}$ | 1050 | .110 |
| $1\frac{3}{8}$ | $1\frac{1}{8}$ | $1\frac{3}{8}$ | $\frac{7}{8}$ | 665 | .108 |
| 1 | $1\frac{1}{4}$ | 1 | 1 | 460 | .108 |
| $1\frac{1}{8}$ | $1\frac{1}{8}$ | $1\frac{1}{8}$ | $1\frac{1}{8}$ | 305 | .108 |
| $1\frac{1}{4}$ | $1\frac{1}{4}$ | 2 | $1\frac{1}{4}$ | 260 | .108 |
| $1\frac{3}{8}$ | $1\frac{3}{8}$ | $2\frac{1}{8}$ | $1\frac{3}{8}$ | 190 | .110 |
| $1\frac{1}{2}$ | $1\frac{1}{2}$ | $2\frac{1}{2}$ | $1\frac{1}{2}$ | 150 | .112 |

Special Screws, Bolts and Nuts, Odd Sizes or
Finishes, Will Receive Our Special Attention.
Send Us Your Inquiries.

SLOTTED NUTS

U. S. S. THREAD



Semi-Finished

| Bolt, Inches | Width, Inches | Thickness, Inches | Width of Slot, Inches | Depth of Slot, Inches | Size Cotter Pin, In. | Per 100 |
|--------------|---------------|-------------------|-----------------------|-----------------------|----------------------|---------|
| 1/4 | 1/2 | 3/4 | 3/8 | 3/8 | 3/4 | \$1.40 |
| 5/16 | 5/8 | 7/8 | 1/2 | 1/2 | 3/8 | 1.65 |
| 3/8 | 3/4 | 1 | 5/8 | 5/8 | 3/8 | 2.15 |
| 7/16 | 7/8 | 1 1/8 | 3/4 | 3/4 | 3/8 | 2.90 |
| 1/2 | 1 | 1 1/4 | 7/8 | 7/8 | 3/8 | 3.40 |
| 5/8 | 1 1/8 | 1 1/2 | 1 | 1 | 3/8 | 4.40 |
| 3/4 | 1 1/4 | 1 3/4 | 1 1/8 | 1 1/8 | 3/8 | 5.40 |
| 7/8 | 1 3/4 | 2 | 1 1/4 | 1 1/4 | 3/8 | 8.40 |
| 1 | 2 | 2 1/4 | 1 3/4 | 1 3/4 | 3/8 | 9.00 |
| | | | | | | 14.40 |

CASTELLATED NUTS

S. A. E. STANDARD



Hexagon Head, Threaded

| Diam. Screw In. | No. Thrd's to Inch | Total Thickness, In. | Diam. Across Flats | Depth Slot, Inches | Width Slot, Inches | Diam. Cotter Pin, In. | Per 100 |
|-----------------|--------------------|----------------------|--------------------|--------------------|--------------------|-----------------------|---------|
| 1/4 | 28 | 3/16 | 1/2 | 3/16 | 1/4 | 1/8 | \$1.50 |
| 5/16 | 24 | 3/16 | 5/8 | 3/16 | 1/4 | 1/8 | 1.75 |
| 3/8 | 24 | 3/16 | 3/4 | 3/16 | 1/4 | 1/8 | 2.25 |
| 7/16 | 20 | 3/16 | 7/8 | 3/16 | 1/4 | 1/8 | 3.00 |
| 1/2 | 20 | 3/16 | 1 | 3/16 | 1/4 | 1/8 | 3.50 |
| 5/8 | 18 | 3/16 | 1 1/8 | 3/16 | 1/4 | 1/8 | 4.50 |
| 3/4 | 18 | 3/16 | 1 1/4 | 3/16 | 1/4 | 1/8 | 5.50 |
| 7/8 | 16 | 3/16 | 1 3/8 | 3/16 | 1/4 | 1/8 | 6.25 |
| 1 | 16 | 3/16 | 1 1/2 | 3/16 | 1/4 | 1/8 | 8.50 |
| | | | | | | | 10.00 |
| | | | | | | | 15.50 |

STEEL BALLS

HOOVER STEEL BALLS
Hardware Grade

For ordinary use as on Bicycles, Roller Skates, etc.

| | | | | | | | |
|--------------|---------|-------|-------|-------|-------|-------|-------|
| Size, Inches | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
| Per 100 | \$0.60 | .60 | .60 | .75 | .90 | 1.05 | |
| Size, Inches | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
| Per 100 | \$1.25 | 1.44 | 1.67 | 2.00 | 2.40 | | |
| Size, Inches | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 |
| Per 100 | \$2.82 | 3.22 | 4.49 | 6.00 | 7.50 | | |
| Size, Inches | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 |
| Per 100 | \$9.00 | 11.00 | 16.00 | 19.85 | 25.20 | | |
| Size, Inches | 3 1/4 | 3 1/2 | 3 3/4 | 4 | 4 1/4 | 4 1/2 | 4 3/4 |
| Per 100 | \$37.00 | 50.00 | 66.30 | 86.00 | | | |

BRASS BALLS

Non-Corrosive

Accurate within .0005 of an inch.

| | | | | | | | |
|--------------|---------|-------|-------|-------|-------|-------|-------|
| Size, Inches | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
| Per 100 | \$0.50 | .60 | .65 | .80 | 1.00 | 1.55 | |
| Size, Inches | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
| Per 100 | \$2.20 | 2.65 | 3.25 | 4.50 | 6.20 | 8.50 | |
| Size, Inches | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 |
| Per 100 | \$10.40 | 12.50 | 15.00 | 21.50 | 26.00 | 32.75 | |

STANDARD STEEL TAPER PINS



Taper 1/4 in. to the Foot. Price Per 100

Polished and Finished

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 |
|----------------------------------|--------|-------|-------|-------|-------|-------|
| Diam. at Large End, Inches | .141 | .156 | .172 | .193 | .219 | .250 |
| Approx. Fractional Sizes, Inches | 3/16 | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 |
| Length 1/2 in. | \$1.80 | 1.80 | | | | |
| Length 3/4 in. | 1.80 | 1.80 | 2.00 | 2.10 | 2.30 | 2.50 |
| Length 1 in. | 2.05 | 2.05 | 2.25 | 2.35 | 2.55 | 2.75 |
| Length 1 1/4 in. | 2.30 | 2.30 | 2.50 | 2.60 | 2.80 | 3.00 |
| Length 1 1/2 in. | | 2.55 | 2.75 | 2.85 | 3.05 | 3.25 |
| Length 1 3/4 in. | | | 3.00 | 3.10 | 3.30 | 3.50 |
| Length 2 in. | | | *3.25 | 3.35 | 3.55 | 3.75 |
| Length 2 1/4 in. | | | | *3.60 | 3.80 | 4.00 |
| Length 2 1/2 in. | | | | 3.85 | 4.05 | 4.25 |
| Length 2 3/4 in. | | | | | 4.30 | 4.50 |
| Length 3 in. | | | | | *4.55 | *4.75 |
| Nos. | 5 | 6 | 7 | 8 | 9 | 10 |
| Diam. at Large End, Inches | .289 | .341 | .409 | .492 | .591 | .706 |
| Approx. Fractional Sizes, Inches | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
| Length 1 in. | \$3.00 | | | | | |
| Length 1 1/4 in. | 3.25 | 3.50 | | | | |
| Length 1 1/2 in. | 3.50 | 3.75 | | | | |
| Length 1 3/4 in. | 3.75 | 4.00 | | | | |
| Length 2 in. | 4.05 | 4.35 | 4.75 | 5.80 | | |
| Length 2 1/4 in. | 4.40 | 4.75 | 5.25 | 6.25 | | |
| Length 2 1/2 in. | 4.75 | 5.20 | 5.75 | 6.75 | | |
| Length 2 3/4 in. | 5.10 | 5.70 | 6.25 | 7.25 | 9.80 | |
| Length 3 in. | *5.45 | 6.25 | 6.75 | 7.80 | 10.50 | |
| Length 3 1/4 in. | | 6.75 | 7.25 | 8.40 | 11.20 | |
| Length 3 1/2 in. | | 7.25 | 7.75 | 9.00 | 11.90 | 15.25 |
| Length 3 3/4 in. | | 7.75 | 8.25 | 9.60 | 12.60 | 16.25 |
| Length 4 in. | *8.25 | *8.75 | 10.20 | 13.30 | 17.25 | |
| Length 4 1/4 in. | | | 10.80 | 14.00 | 18.25 | |
| Length 4 1/2 in. | | | 11.40 | 14.70 | 19.25 | |
| Length 4 3/4 in. | | | 12.00 | 15.40 | 20.25 | |
| Length 5 in. | | | 12.60 | 16.10 | 21.25 | |
| Length 5 1/4 in. | | | | 16.80 | 22.25 | |
| Length 5 1/2 in. | | | | 17.50 | 23.25 | |
| Length 5 3/4 in. | | | | 18.20 | 24.25 | |
| Length 6 in. | | | | 18.90 | 25.25 | |

*Pins Marked with * are too long for use with Regular Taper Pin Reamers of Corresponding Numbers.

WOODRUFF KEYS

ASSORTED



Per Assortment

No. 2—Contains 100 Assorted Keys, 5 Each Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, A, 13, 14, 15, B, 16, 17, 3 No. 18 and Two No. C. Put Up in a Cardboard Box \$2.75

SPRING COTTERS STANDARD

(Standard List Adopted October 5, 1922)



List Per 1000

| Dia., In. | 1/16 | 3/32 | 1/8 | 5/32 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Wire Ga. | 16 | 13 | 11 | 9 | 7 | 4 | 1 | 3 1/2 | 3 1/8 | 3 1/4 |
| Lgth. in. | | | | | | | | | | |
| 1/2 | \$0.33 | \$0.33 | \$0.45 | | | | | | | |
| 3/4 | .43 | .43 | .58 | \$0.93 | \$1.25 | | | | | |
| 1 | .53 | .53 | .70 | 1.10 | 1.55 | \$2.80 | \$4.26 | | | |
| 1 1/4 | .63 | .63 | .83 | 1.28 | 1.85 | 3.20 | 4.80 | | | |
| 1 1/2 | .73 | .73 | .95 | 1.45 | 2.15 | 3.60 | 5.40 | \$7.80 | | |
| 1 3/4 | .83 | .83 | 1.08 | 1.63 | 2.45 | 4.00 | 6.00 | | | |
| 2 | .93 | .93 | 1.20 | 1.80 | 2.75 | 4.40 | 6.60 | 9.30 | \$18.00 | |
| 2 1/4 | | | | 2.00 | 3.05 | 4.80 | 7.10 | | | |
| 2 1/2 | 1.23 | 1.23 | 1.55 | 2.20 | 3.35 | 5.20 | 7.60 | 10.80 | 21.00 | |
| 3 | 1.53 | 1.53 | 1.90 | 2.60 | 3.95 | 5.90 | 8.60 | 12.30 | 24.00 | \$40.00 |
| 3 1/2 | | | | | 4.55 | 6.60 | 9.60 | 13.80 | 27.00 | 45.00 |
| 4 | | | | 3.80 | 5.15 | 7.30 | 10.60 | 15.30 | 30.00 | 50.00 |
| 5 | | | | | | 8.70 | 12.60 | 18.30 | 35.00 | 58.00 |
| 6 | | | | | | 10.10 | 14.60 | 21.30 | 40.00 | 66.00 |

All measurements made under the eye.

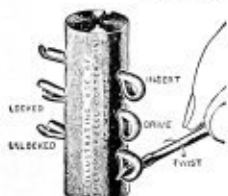
3/8, 1/2, 5/8, 1 1/2, 1 3/4, 2, 2 1/2 and 3 in. diameters are not listed above, but furnished to the extent that they may be in stock, or when required in sufficient quantities of a size to warrant being made up. These sizes will take the list of the next larger diameter.

Intermediate lengths take next longer list. Sizes longer than shown on list—add one and one-half times list differential for each unit of length or fraction thereof.

Prices apply to standard packages only—extra charge for other than standard packing.

SELF-SPREADING SPRING COTTERS

CAMPBELL "HAMMER-LOCK"



Most economical and practical cotter pin on the market and especially adapted to quick repairs.

All operations done from the eye end. Easily removed and can be used several times.

Use Same List as Standard Spring Couters Shown Above.

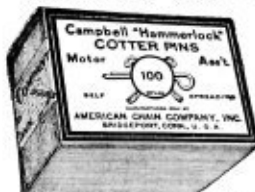
BRASS SPRING COTTERS



Per 1000

| Diam., In. | 1/16 | 3/32 | 1/8 | 5/32 | 3/16 | 1/4 |
|------------|--------|--------|------|--------|---------|---------|
| 3/8 | \$2.64 | | | | | |
| 1/2 | 2.64 | \$3.60 | | | | |
| 5/8 | 3.44 | | | | | |
| 3/4 | 3.44 | \$3.44 | 4.64 | | | |
| 1 | 4.24 | 4.24 | 5.60 | \$8.80 | \$12.40 | |
| 1 1/4 | | | 6.64 | 14.80 | | |
| 1 1/2 | | | 7.60 | 11.60 | 17.20 | \$26.40 |
| 2 | | | | 22.00 | 35.20 | |
| 2 1/2 | | | | 26.80 | | |

SPRING COTTER ASSORTMENTS



CAMPBELL HAMMER-LOCK

Per Assortment

Motor Assortment—Consists of 100 Pins, Assorted Sizes as Enumerated Below, Put Up in a Strong Pasteboard Carton \$0.15

Contents of Assortment

| Size | Quantity | Size | Quantity |
|--------------|----------|-------------|----------|
| 1/16 x 1/2 | 17 | 3/8 x 1 1/2 | 5 |
| 1/16 x 1 | 14 | 1/2 x 1 1/2 | 8 |
| 1/16 x 1 1/4 | 9 | 1/2 x 1 1/2 | 12 |
| 1/16 x 1 | 29 | 1/2 x 1 1/2 | 6 |

SPRING COTTER ASSORTMENTS

CAMPBELL HAMMERLOCK

Per Assortment

Automobile Kit Assortment—Consists of 100 Pins, Assorted Sizes as Enumerated Below, Put Up in a Brass Screw Top Box, Nickel Plated \$0.30

Contents of Assortment

| Size | Quantity | Size | Quantity |
|--------------|----------|-------------|----------|
| 1/16 x 1/2 | 17 | 3/8 x 1 1/2 | 5 |
| 1/16 x 1 | 14 | 1/2 x 1 1/2 | 8 |
| 1/16 x 1 1/4 | 9 | 1/2 x 1 1/2 | 12 |
| 1/16 x 1 | 29 | 1/2 x 1 1/2 | 6 |

Per Assortment

Automobile Dealers' Assortment—

Consists of 1000 Pins, Assorted Sizes Most Commonly Used, Put Up in a Strong Cardboard Box \$1.00



Contents of Assortment

| Size | Quantity | Size | Quantity |
|--------------|----------|-------------|----------|
| 1/16 x 1/2 | 100 | 3/8 x 1 1/2 | 100 |
| 1/16 x 3/4 | 100 | 1/2 x 3/4 | 50 |
| 1/16 x 1 | 100 | 1/2 x 1 | 60 |
| 1/16 x 1 1/2 | 100 | 1/2 x 1 1/2 | 20 |
| 1/8 x 1/2 | 60 | 1/2 x 2 | 20 |
| 1/8 x 3/4 | 100 | 3/8 x 1 1/2 | 20 |
| 1/8 x 1 | 150 | 3/8 x 1 1/2 | 20 |



Per Assortment

Garage Assortment—Consists of a Variety of 3000 Pins, Sizes Most Commonly Used by the Automobile Trade, Packed in a Strong Wooden Box. . . \$3.00

Contents of Assortment

| Size | Quantity | Size | Quantity |
|--------------|----------|-------------|----------|
| 1/16 x 1/2 | 250 | 1/2 x 3/4 | 250 |
| 1/16 x 3/4 | 250 | 1/2 x 1 | 250 |
| 1/16 x 1 | 250 | 1/2 x 1 1/4 | 100 |
| 1/16 x 1 1/2 | 250 | 3/8 x 3/4 | 100 |
| 1/8 x 1/2 | 300 | 3/8 x 1 1/4 | 100 |
| 1/8 x 3/4 | 300 | 1/2 x 1 | 50 |
| 1/8 x 1 | 500 | 1/2 x 1 1/4 | 50 |

PORCH SWING SPRINGS

RAYMOND "SWING EASY"



- Finely Tempered Steel Wire, Japanned Per Pair
- No. R1—8 1/2 in. Long, 1 1/2 in. Outside Diameter, 1/4 in. Wire, for Couch Hammocks and Heavy Wood Swings \$1.00
- No. R2—7 1/2 in. Long, 1 1/4 in. Outside Diameter, No. 5 Wire, for Wood, Fibre and Canvas Swings... .50
- Open Stock.

BABY JUMPER SPRINGS

RAYMOND SAFETY



A symmetrical safety spring of extension type, with stop hooks inside of spring.

An "S" Hook is clamped to each end, which makes adjustment with any make of baby swing.

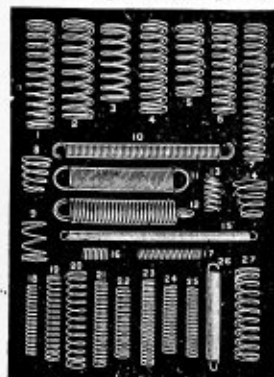
- Polished Nickel Each
- No. R5—Assembled Complete \$0.35
- One in a Carton.

EXTENSION SPRINGS



- No. R412—4 in. Long, 1 1/2 in. Outside Diameter, No. 12 Wire, Japanned Finish..... \$0.10
- Open Stock.

SPRING ASSORTMENTS



- No. R48 Assortment
- Per Assortment
- No. R48—Assortment Consists of 48 Springs of 27 Different Types and Tensions \$1.25

This assortment includes steel, music wire, brass and phosphor bronze springs. A very complete assortment for the hardware store, machine or repair shop. Assortment contains springs for shop and household use such as automotive springs, washing machine springs, lock springs and many others.

One Assortment in a Box.



Complete Hardware Assortment

- No. 519 Assortment—Consists of 519 Springs, 54 Sizes, Put Up in a 27x22x3 in. Olive Green Finished Steel Compartment Box, with Labels, Handle and Indexed Folding Cover..... \$30.00
- The result of a careful survey of the spring needs of the average hardware store.

LOCK WASHERS

NEVERSLIP



Sharp gripping teeth of metal project from both sides of the washer. These teeth firmly imbed themselves into the metal on both sides of washer.

Properly tempered to retain spring.

S. A. E. Light

For S. A. E. Standard Bolts.

| Size Bolt, In. | Size Steel, In. | Per 1000 | Size Bolt, In. | Size Steel, In. | Per 1000 |
|----------------|-----------------|----------|----------------|-----------------|----------|
| 3/8 | 3/8 x 3/8 | \$1.35 | 3/8 | 3/8 x 3/8 | \$21.35 |
| 1/2 | 1/2 x 1/2 | 2.70 | 1/2 | 1/2 x 1/2 | 23.70 |
| 5/8 | 5/8 x 5/8 | 5.00 | 5/8 | 5/8 x 5/8 | 26.70 |
| 3/4 | 3/4 x 3/4 | 5.70 | 3/4 | 3/4 x 3/4 | 46.00 |
| 7/8 | 7/8 x 7/8 | 8.35 | 7/8 | 7/8 x 7/8 | 53.00 |
| 1 | 1 x 1 | 10.35 | 1 | 1 x 1 | 77.00 |

1000 in a Package.

Put up in Special Assortments—Refer to our Automobile Catalog.

STANDARD



Heavy, Positive Pattern

| Bolt, Size, Inches..... | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
|-------------------------|-----------|---------------|---------------|-----------|-----------|
| Body Size, Inches..... | 3/8 x 3/8 | 1/2 x 1/2 | 5/8 x 5/8 | 3/4 x 3/4 | 7/8 x 7/8 |
| Per 1000 | \$20.00 | 55.60 | 103.20 | 110.40 | |
| Bolt Size, Inches..... | 1 | 1 1/4 | 1 1/2 | | |
| Body Size, Inches..... | 3/8 x 3/8 | 1 1/4 x 1 1/4 | 1 1/2 x 1 1/2 | | |
| Per 1000 | \$135.20 | 164.40 | 290.40 | | |

Position Pattern, S. A. E. Light

| Bolt Size, Inches..... | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
|------------------------|-----------|---------------|---------------|-----------|-----------|
| Body Size, Inches..... | 3/8 x 3/8 | 1/2 x 1/2 | 5/8 x 5/8 | 3/4 x 3/4 | 7/8 x 7/8 |
| Per 1000 | \$3.80 | 5.20 | 6.80 | 8.00 | |
| Bolt Size, Inches..... | 1 | 1 1/4 | 1 1/2 | | |
| Body Size, Inches..... | 3/8 x 3/8 | 1 1/4 x 1 1/4 | 1 1/2 x 1 1/2 | | |
| Per 1000 | \$10.40 | 11.60 | 16.40 | 22.00 | |
| Bolt Size, Inches..... | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 |
| Body Size, Inches..... | 3/8 x 3/8 | 1/2 x 1/2 | 5/8 x 5/8 | 3/4 x 3/4 | 7/8 x 7/8 |
| Per 1000 | \$36.40 | 64.00 | 110.40 | | |

1000 in a Package.

WROUGHT WASHERS



Standard List
U. S. Standard Sizes
In 200 Pound Kegs

| Outside Dia., In. | Size of Hole, In. | Thick. Wire Ga. | Size of Bolt, In. | Est. No. in 100 Lbs. | Per 100 Lbs. |
|-------------------|-------------------|-----------------|-------------------|----------------------|--------------|
| 3/8 | 1/4 | 18 (3/16) | 3/8 | 39400 | \$14.00 |
| 1/2 | 3/8 | 16 (1/8) | 1/2 | 15600 | 12.20 |
| 5/8 | 1/2 | 14 (5/16) | 5/8 | 11250 | 11.40 |
| 1 | 3/4 | 12 (3/8) | 1 | 6800 | 10.50 |
| 1 1/4 | 1 1/8 | 10 (1/4) | 1 1/4 | 4300 | 9.80 |
| 1 1/2 | 1 3/8 | 10 (1/4) | 1 1/2 | 2600 | 9.40 |
| 1 3/4 | 1 5/8 | 10 (1/4) | 1 3/4 | 2250 | 9.30 |
| 2 | 2 | 9 (5/16) | 2 | 1300 | 9.20 |
| 2 1/4 | 2 1/8 | 8 (3/8) | 2 1/4 | 900 | 9.10 |
| 2 1/2 | 2 3/8 | 8 (3/8) | 2 1/2 | 782 | 9.00 |
| 2 3/4 | 2 5/8 | 8 (3/8) | 2 3/4 | 568 | 9.00 |
| 3 | 3 | 8 (3/8) | 3 | 473 | 9.00 |
| 3 1/4 | 3 1/8 | 7 (3/8) | 3 1/4 | 364 | 9.20 |
| 3 1/2 | 3 3/8 | 7 (3/8) | 3 1/2 | 275 | 9.20 |
| 3 3/4 | 3 5/8 | 7 (3/8) | 3 3/4 | 256 | 9.20 |

MALLEABLE IRON WASHERS



- No. 10—Standard Pattern, with Nut Locking Feature
- For Bolt, In. 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2
- Diam., In. 2 1/2 2 3/4 3 3 1/2 4 4 1/2 5 6
- Thick., In. 1/4 5/16 3/8 1/2 5/8 3/4 1
- Wt. 100, Lbs. 15 22 23 50 68 87 150 190
- Per Pound, All Sizes..... \$0.12
- Two Hundred Pounds in a Keg.

CAST WASHERS



Ogee Pattern

| | | | | | |
|-----------------------|----------------|----------------|---------------|----------------|------|
| For Bolt, Inches..... | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 |
| Diameter, Inches..... | $2\frac{1}{2}$ | $2\frac{3}{4}$ | 3 | $3\frac{1}{2}$ | 4 |
| Per 100 Pounds..... | \$8.00 | 8.00 | 8.00 | 8.00 | 8.00 |

BRASS WASHERS



REGULAR

Small Pattern

| Sz. Washer, Screw or Bolt | Outside Dia., in. | Inside Dia., in. | Thick., inches | App. No. in Lb. | Per Lb. |
|---------------------------|-------------------|------------------|----------------|-----------------|---------|
| No. 3 | $\frac{1}{4}$ | .101 | .020 | 4000 | \$2.00 |
| No. 4 | $\frac{3}{8}$ | .125 | .025 | 2500 | 1.50 |
| No. 6 | $\frac{1}{2}$ | .150 | .032 | 1100 | 1.00 |
| No. 8 | $\frac{3}{4}$ | .170 | .032 | 1170 | 1.00 |
| No. 10 | $\frac{7}{8}$ | .195 | .036 | 760 | .90 |
| No. 12 | $1\frac{1}{8}$ | .228 | .040 | 525 | .80 |
| No. 14 | $1\frac{1}{4}$ | .260 | .040 | 420 | .80 |
| No. 16 | $1\frac{3}{8}$ | .285 | .040 | 340 | .75 |
| No. 18 | $1\frac{1}{2}$ | .315 | .051 | 230 | .75 |
| No. 20 | $1\frac{3}{4}$ | .345 | .064 | 150 | .75 |
| No. 24 | 2 | .385 | .064 | 110 | .75 |

Large Pattern

| | | | | | |
|--------|----------------|------|------|-----|--------|
| No. 8 | $\frac{7}{8}$ | .170 | .036 | 725 | \$0.90 |
| No. 10 | $1\frac{1}{8}$ | .195 | .040 | 480 | .80 |
| No. 12 | $1\frac{1}{4}$ | .228 | .040 | 380 | .80 |
| No. 14 | $1\frac{3}{8}$ | .260 | .051 | 210 | .75 |
| No. 16 | $1\frac{1}{2}$ | .285 | .064 | 135 | .75 |
| No. 18 | $1\frac{3}{4}$ | .315 | .064 | 100 | .75 |
| No. 20 | 2 | .345 | .064 | 103 | .75 |
| No. 24 | 2 | .385 | .081 | 64 | .70 |

Bolt Sizes

| | | | | | |
|---------------|----------------|------|------|-----|--------|
| $\frac{3}{8}$ | $\frac{1}{2}$ | .195 | .040 | 480 | \$0.80 |
| $\frac{1}{4}$ | $\frac{3}{8}$ | .260 | .051 | 210 | .75 |
| $\frac{3}{8}$ | $\frac{1}{2}$ | .315 | .064 | 103 | .75 |
| $\frac{1}{2}$ | 1 | .385 | .081 | 64 | .70 |
| $\frac{3}{4}$ | $1\frac{1}{8}$ | .450 | .081 | 45 | .70 |
| $\frac{1}{2}$ | $1\frac{1}{4}$ | .515 | .091 | 29 | .70 |
| $\frac{3}{4}$ | $1\frac{3}{8}$ | .580 | .091 | 21 | .70 |
| $\frac{1}{2}$ | 2 | .645 | .125 | 10 | .70 |
| $\frac{3}{4}$ | $2\frac{1}{8}$ | .710 | .144 | 6 | .70 |
| 1 | $2\frac{1}{4}$ | .775 | .144 | 5 | .70 |

LEAD WASHERS



Make an absolutely Water Tight Joint on any surface, whether concave, convex or flat. Also prevent rust below nail head and head from cutting into sheet. One pound will put on 2 to 3 squares.

For Use with Sheet Iron Roofing and Siding

No. 2— $\frac{7}{8}$ in. Diameter, $\frac{3}{4}$ in. Hole, About 325 to Lb. \$0.30
5 Pounds in a Carton. 100 Pounds in a Case.

RIVETING BURRS



Wrought Steel

Tinned in 1 Lb. Boxes

| Size | Outside Dia., in. | App. No. in Lb. | Size Hole | Gauge No. | Tinned Per Lb. |
|------|-------------------|-----------------|-----------|-----------|----------------|
| 6 | $\frac{1}{2}$ | 450 | .215 | 18 | \$0.52 |
| 7 | $\frac{3}{4}$ | 420 | .188 | 18 | .53 |
| 8 | $\frac{1}{2}$ | 420 | .172 | 18 | .54 |
| 9 | $\frac{3}{4}$ | 552 | .157 | 18 | .55 |
| 10 | $\frac{1}{2}$ | 637 | .143 | 18 | .57 |
| 11 | $\frac{3}{4}$ | 740 | .127 | 18 | .60 |
| 12 | $\frac{1}{2}$ | 722 | .115 | 18 | .70 |

RIVETING BURRS



Annealed, No. 18 Gauge

| | | | | | |
|-------------------------------|---------------|---------------|---------------|---------------|-----|
| For Rivets, Inches..... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 |
| Outside Diameter, Inches..... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 |
| Per Pound | \$0.54 | .46 | .40 | .40 | .40 |

Five Pounds in a Box.

IRON RIVETS



Flat



Round



Countersunk

Round, Flat and Counter-sink Heads in Bulk

Annealed

List of May 19, 1920

Per Pound in 200 Lb. Kegs

| Length, Inches | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 1 1/2 | 2 |
|---------------------------------|---------------|---------------|---------------|---------------|---------|---------|---------|
| Diameter $\frac{1}{8}$ in..... | \$0.33 | .32 | .29 | .26 | .22 | .22 | .22 |
| Diameter $\frac{3}{16}$ in..... | .24 | .23 | .22 | .21 | .19 | .19 | .19 |
| Diameter $\frac{1}{4}$ in..... | .13 | .22 | .21 | .20 | .18 | .18 | .18 |
| Diameter $\frac{5}{16}$ in..... | .22 | .21 | .20 | .20 | .18 | .18 | .18 |
| Diameter $\frac{3}{8}$ in..... | .20 | .20 | .19 | .19 | .17 | .17 | .17 |
| Diameter $\frac{1}{2}$ in..... | .20 | .18 | .18 | .16 1/2 | .16 1/2 | .16 1/2 | .16 1/2 |
| Diameter $\frac{3}{4}$ in..... | .20 | .18 | .17 | .16 | .16 | .16 | .16 |

Length, Inches $\frac{3}{4}$ $\frac{7}{8}$ 1 to 2 $3\frac{1}{2}$ 6
Diameter $\frac{1}{8}$ in..... \$0.21 1/2 .21 1/2 .21
Diameter $\frac{3}{16}$ in..... .18 1/2 .18 1/2 .18
Diameter $\frac{1}{4}$ in..... .17 1/2 .17 1/2 .17 .20 .22
Diameter $\frac{5}{16}$ in..... .17 1/2 .17 1/2 .17 .20 .22
Diameter $\frac{3}{8}$ in..... .16 1/2 .16 1/2 .16 .18 .19
Diameter $\frac{1}{2}$ in..... .16 .16 .15 1/2 .17 1/2 .18 1/2
Diameter $\frac{3}{4}$ in..... .15 1/2 .15 1/2 .15 .17 .17

Advance for Quantity

100 lb. Kegs Add 1¢ to Above List.

50 lb. Boxes Add 3¢ to Above List.

25 lb. Boxes Add 4¢ to Above List.

5 or 10 lb. Boxes Add 5¢ to Above List.

1 lb. Boxes Add 8¢ to Above List.

Flat Head, Tinned

Per Pound ...

| Length, Inches..... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 |
|--------------------------------|---------------------------------|---------------|---------------|---------------|---|
| Diameter $\frac{1}{8}$ in..... | Same Lists as Above Plus 6¢ Per | | | | |
| Diameter $\frac{1}{4}$ in..... | Lb. Net for Tinning. | | | | |

BOILER, SHIP AND STRUCTURAL RIVETS

Sizes, $\frac{1}{2}$ inch Diameter and Larger

In Kegs or Bags of 200 to 300 Pounds.

Boiler Rivets, Standard Heads, Structural Rivets, Standard Round or Button Heads, Ship Rivets, Straight Neck, $\frac{3}{4}$ to $1\frac{1}{4}$ in. diameter. 2 to 5 in. length inclusive.

STANDARD EXTRAS

Per 100 Lbs.

| | |
|--|--------|
| 1— $\frac{1}{2}$ in. Diameter | \$0.75 |
| 2— $\frac{3}{8}$ in. Diameter | .35 |
| 3— $\frac{1}{4}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{4}$ in., and 1 in. subject to same diameter extra as nearest smaller diameter, plus 25¢ net per 100 lbs. | |
| 4—Rivets Larger than $1\frac{1}{2}$ in. Diameter..... | .25 |
| 5—Lengths 1 in. and Shorter..... | .75 |
| 6—Lengths Longer than 1 in. Up to and Including 2 in. | .25 |
| 7—Lengths 5 in. and Longer..... | .50 |
| 8—Swell Necks | .25 |
| 9—Annealing Rivets for Cold Driving..... | .50 |
| 10—Rivets Packed in 100 to 199 lb. Packages..... | .40 |
| 11—Reinforcing Kegs or Packing in Bags for Export, 25¢ Net Extra Per Package. | |
| 12—Packing in Boxes for Export, price on application. | |
| 13—Cone or Button-head Boiler and Tank Rivets, Extra | \$0.20 |
| 14—Steeple-head Rivets | .45 |
| 15—Countersunk Head Rivets..... | .45 |
| 16—Bullhead Rivets | .70 |
| 17—Pan Head Rivets..... | .45 |
| 18—Special shape or sized heads other than style and standard above listed, price on application. | |
| 19—We prefer not to break kegs, but where necessary to ship less than 100 lbs. of a size, \$1.00 net extra will be added for each broken keg. | |
| 20—Cost of testing and inspection, if any, to be at customer's expense. | |

TINNERS RIVETS



Black and Tinned
Per 1000 in Packages.

| * Size | Dimensions, In. | | Black Per 1000 | Metallic Tinned |
|-----------|-----------------|----------------|-------------------|--------------------|
| | Diam. | Length | | |
| 6 Oz. | .083 | $\frac{1}{8}$ | \$0.28 | \$0.02 |
| 8 Oz. | .089 | $\frac{3}{32}$ | .32 | .02 $\frac{1}{2}$ |
| 10 Oz. | .095 | $\frac{1}{4}$ | .36 | .03 $\frac{1}{8}$ |
| 12 Oz. | .106 | $\frac{5}{16}$ | .41 | .03 $\frac{3}{4}$ |
| 14 Oz. | .109 | $\frac{3}{8}$ | .45 | .04 $\frac{1}{2}$ |
| 1 Lb. | .112 | $\frac{1}{2}$ | .48 | .05 |
| 1 1/4 Lb. | .120 | $\frac{5}{8}$ | .54 | .06 $\frac{1}{4}$ |
| 1 1/2 Lb. | .130 | $\frac{3}{4}$ | .62 | .07 $\frac{1}{2}$ |
| 1 3/4 Lb. | .134 | $\frac{7}{8}$ | .67 | .08 $\frac{1}{4}$ |
| 2 Lb. | .145 | $\frac{1}{2}$ | .72 | .10 |
| 2 1/2 Lb. | .148 | $\frac{3}{4}$ | .83 | .12 $\frac{1}{2}$ |
| 3 Lb. | .161 | $\frac{3}{8}$ | .96 | .15 |
| 3 1/2 Lb. | .165 | $\frac{1}{2}$ | 1.09 | .17 $\frac{1}{2}$ |
| 4 Lb. | .176 | $\frac{1}{2}$ | 1.20 | .20 |
| 5 Lb. | .186 | $\frac{3}{8}$ | 1.30 | .25 |
| 6 Lb. | .205 | $\frac{3}{8}$ | 1.50 | .30 |
| 7 Lb. | .220 | $\frac{1}{2}$ | 1.75 | .35 |
| 8 Lb. | .225 | $\frac{1}{2}$ | 2.00 | .40 |
| 9 Lb. | .238 | $\frac{1}{2}$ | 2.20 | .45 |
| 10 Lb. | .240 | $\frac{1}{2}$ | 2.40 | .50 |
| 12 Lb. | .259 | $\frac{1}{2}$ | 2.64 | .60 |
| 14 Lb. | .284 | $\frac{1}{2}$ | 3.08 | .70 |
| 16 Lb. | .300 | $\frac{1}{2}$ | 3.52 | .80 |
| 18 Lb. | .343 | $\frac{1}{2}$ | 3.78 | .90 |
| 20 Lb. | .375 | $\frac{1}{2}$ | 4.20 | 1.00 |

*Size Indicates Weight of 1000 Rivets in Pounds.

TUBULAR RIVETS



No. 1J—Japanned, Diameter of Head 5/16 in., Diameter Body 9/64 in.
Packed in 50 and 100 Count Boxes.

Uniform Lengths

| Length, Inches | 4/16 | 5/16 | 6/16 | 7/16 |
|--------------------------|--------|------|------|------|
| Boxes of 50...Per Dozen | \$1.36 | 1.42 | 1.47 | 1.51 |
| Boxes of 100...Per Dozen | 2.36 | 2.47 | 2.60 | 2.68 |

| Length, Inches | 8/16 | 9/16 | 10/16 |
|--------------------------|--------|------|-------|
| Boxes of 50...Per Dozen | \$1.57 | 1.45 | 1.70 |
| Boxes of 100...Per Dozen | 2.57 | 2.91 | 3.02 |

Assorted Lengths

| 3/16 to 1/2 in.— 50 in a Box | \$1.44 |
|------------------------------|--------|
| 3/16 to 1/2 in.—100 in a Box | 2.53 |

BRASS

No. 738—Diameter Body 9/64 in., Diameter Head 5/16 in.
Uniform in Lengths, Packed in 100 and 1000 Count Boxes.

| Length, Inches | 5/16 | 3/8 | 1/2 | 5/8 |
|--------------------------|--------|------|------|------|
| Boxes of 1000...Each | \$2.08 | 2.23 | 2.53 | 2.83 |
| Boxes of 100...Per Dozen | 2.75 | 2.97 | 3.27 | 3.67 |

BRASS JACKET RIVETS

Oval Head, 1/4 in.

| Nos. | 8 | 10 | 12 |
|-----------|--------|-----|-----|
| Per Pound | \$0.75 | .75 | .75 |

SLOTTED CLINCH RIVETS



Actual Size of Rivets.

No. 1C—Coppered, 50 Rivets in a Box.

Diameter of Head $\frac{5}{16}$ in., Body $\frac{3}{16}$ in.

| Length, Inches | 4/16 | 5/16 | 6/16 | 7/16 |
|-----------------|--------|------|-------|-------|
| Per Dozen Boxes | \$1.02 | 1.02 | 1.06 | 1.09 |
| Length, Inches | 8/16 | 9/16 | 10/16 | 12/16 |
| Per Dozen Boxes | \$1.12 | 1.18 | 1.21 | 1.38 |

Assorted Lengths

Per Dozen Boxes

| | |
|------------------------------|--------|
| 4/16 to 1/2 in.— 50 in a Box | \$0.89 |
| 4/16 to 1/2 in.—100 in a Box | 1.52 |

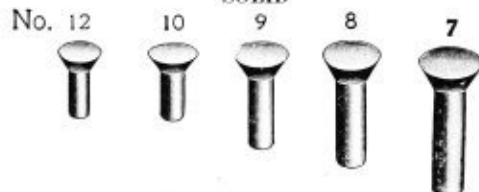
BRAKE BAND RIVETS
BRASS CLINCH

A Hand Tool for holding rivets included with each box.

No. 2970—Brass, $\frac{3}{16}$ in. Diameter Body, $\frac{1}{8}$ in. Diameter Head, 100 in a Box or 1000 in a Box.

| | | | | |
|---------------------------|--------|-------|-------|------|
| Length, Inches | 5/16 | 6/16 | 7/16 | 8/16 |
| Per 1000 | \$1.70 | 1.93 | 2.08 | 2.23 |
| Boxes of 100... Per Dozen | 2.25 | 2.50 | 2.70 | 2.90 |
| Length, Inches | 9/16 | 10/16 | 12/16 | |
| Per 1000 | \$2.53 | 2.63 | 2.93 | |
| Boxes of 100... Per Dozen | 3.20 | 3.35 | 3.65 | |

SOLID



Solid Copper, in 1/2 Lb. Boxes

| Nos. | Diam. Body, In. | Diam. Head, In. | Lengths, Inch | Per Pound |
|------|-----------------|-----------------|---|-----------|
| 12 | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ | \$0.51 |
| 10 | $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ | .52 |
| 9 | $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ | .53 |
| 8 | $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ | .55 |
| 7 | $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ | .57 |
| 6 | $\frac{3}{16}$ | $\frac{3}{16}$ | $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ | .61 |

COPPER RIVETS

Without Burrs



Oval Head. Countersunk Head. Flat Head.

All Sizes in 1 Lb. Boxes Except those Marked with a (*) which are in 5 Lb. Boxes.

Oval Head

Per Pound.....Prices on Application

| |
|--|
| $\frac{1}{4}$ x $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 |
| $\frac{3}{8}$ x $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ |
| $\frac{1}{2}$ x 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ |
| $\frac{3}{4}$ x 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 2 |

Countersunk Head

Per Pound.....Prices on Application

| |
|--|
| $\frac{1}{4}$ x $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 1 $\frac{3}{4}$, 2 |
| $\frac{3}{8}$ x $\frac{3}{8}$, $\frac{7}{8}$, 1, *1 $\frac{1}{4}$, *1 $\frac{1}{2}$, *1 $\frac{3}{4}$, *2 |
| $\frac{1}{2}$ x * $\frac{3}{4}$, *1, *1 $\frac{1}{4}$, *1 $\frac{1}{2}$, *1 $\frac{3}{4}$ |

Flat Head

Per Pound.....Prices on Application

| |
|--|
| $\frac{1}{4}$ x $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 1 $\frac{3}{4}$ |
| $\frac{3}{8}$ x $\frac{3}{8}$, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ |
| $\frac{1}{2}$ x 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 1 $\frac{3}{4}$, 2 |

COPPER BELT RIVETS AND BURRS



Rivets Only, in 1 Pound Boxes Per Pound

| | | | | | | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|--------|-----|
| No. 6—Length | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ | in. | \$0.49 | |
| No. 7—Length | $\frac{3}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | in. | .49 |
| No. 8—Length | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | in. | .50 |
| No. 9—Length | $\frac{3}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | in. | .52 |
| No. 10—Length | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | in. | .54 |
| No. 12—Length | $\frac{3}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | in. | .58 |
| No. 14—Length | $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | in. | | .65 |

Burrs Only, in 1 Pound Boxes

| | | | | | | | | | |
|-----------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| Nos. | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| Per Pound | \$0.49 | .49 | .49 | .49 | .50 | .52 | .54 | .58 | .65 |

Rivets and Burrs, in 1 Pound Boxes Per Pound

| | | | | | | | | | | | |
|---------------|-----|-------|-------|-----|--------|-----|---|-------|-------|-----|-----|
| No. 4—Length | 1 | 1 1/4 | 1 1/2 | in. | \$0.49 | | | | | | |
| No. 5—Length | 1 | 1 1/4 | 1 1/2 | in. | .49 | | | | | | |
| No. 6—Length | 3/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | in. | .49 |
| No. 7—Length | 3/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | in. | .49 |
| No. 8—Length | 3/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | in. | .50 |
| No. 9—Length | 3/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | in. | .52 |
| No. 10—Length | 3/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | in. | .54 |
| No. 12—Length | 3/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | in. | | | .58 |

Assortments, in 1/4 Lb. Boxes

| | | |
|--------------|------------|------------|
| Nos. | 8 | 10 |
| Size, Inches | 3/8 to 3/4 | 3/8 to 3/4 |
| Per Pound | \$0.58 | .62 |

Assortments, in 1/2 Lb. Boxes

| | | |
|--------------|------------|------------|
| Nos. | 8 | 10 |
| Size, Inches | 3/8 to 3/4 | 3/8 to 3/4 |
| Per Pound | \$0.56 | .60 |

RIVETING MACHINES



REX

No. 24—6 1/2 in. High, 5 1/2 in. Long, Malleable Iron Frame, Finished in Black and Gilt, Case Hardened Steel Working Parts, Adjusts Automatically to Any Length Rivets, Weight Each 2 1/2 Lbs. \$1.50

Each

LEATHER BELTING

FLAT



Made from carefully selected stock cut from choice parts of hide and specially treated.

In 50 Foot Rolls

Single Ply

| | | | | | |
|-----------------------|--------|-------|-------|-------|-----|
| Width, Inches | 3/2 | 5/8 | 3/4 | 7/8 | 1 |
| Weight 100 Feet, Lbs. | 4 | 5 | 6 | 7 | 8 |
| Per Foot | \$0.12 | .15 | .18 | .21 | .24 |
| Width, Inches | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Weight 100 Feet, Lbs. | 9 | 10 | 12 | 14 | 16 |
| Per Foot | \$0.27 | .30 | .36 | .42 | .48 |

ROUND

A proven serviceable belting for light drives. Made from oak tanned leather. Used on sewing machines, washing machines, shoe machines and various other purposes.

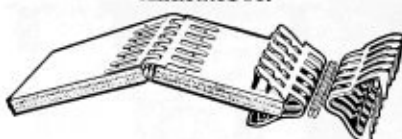
50 Feet on a Spool

| | | | | |
|---------------------|--------|-----|-----|-----|
| Size, Inches | 1/4 | 3/8 | 1/2 | 3/4 |
| Wt. 1000 Feet, Lbs. | 3 1/2 | 6 | 8 | 11 |
| Per Foot | \$0.08 | .12 | .16 | .26 |



STEEL BELT LACING

ALLIGATOR



Alligator Steel Lacing is adapted for use on leather, rubber, Balata, cotton or canvas stitched belts of any width or thickness and will hold securely the size belt it is intended for.

The joint lasts long and saves repair. No punch holes, and a pull against the edge of steel teeth avoid weakening belt and add to its life.

Lacing is smooth on both sides of belt and can run in contact with an idler pulley or on serpentine drives. It can be used in all classes of service, light work or heavy duty on any kind of belting.

A perfect flexible joint made in any kind of belting on a 4 in. belt in three minutes.

Packed in boxes complete with gauge and hinge pins.

Cold Rolled Steel

| Nos. | Thickness Belt, Inches | Will Join Width, Inches | Length Section, Inches | Per Box |
|------|------------------------|-------------------------|------------------------|---------|
| 60 | Up to 3/8 | 72 | 6 | \$2.60 |
| 1 | 3/8 to 1/2 | 42 | 6 | 1.70 |
| 15 | 1/2 to 3/4 | 64 | 8 | 2.60 |
| 20 | 3/4 to 1 | 60 | 12 | 2.60 |
| F25 | 1 to 1 1/4 | 48 | 8 | 2.50 |
| G25 | 1 1/4 to 1 1/2 | 96 | 12 | 5.00 |
| L27 | 1 1/2 to 1 3/4 | 96 | 12 | 5.30 |
| M35 | 1 3/4 to 2 | 32 | 8 | 2.30 |
| N35 | 2 to 2 1/4 | 48 | 12 | 3.40 |
| U45 | 2 1/4 to 2 1/2 | 48 | 12 | 4.50 |
| W55 | 2 1/2 to 2 3/4 | 48 | 12 | 5.20 |
| X65 | 2 3/4 to 3 | 48 | 12 | 6.00 |
| 75 | 3 to 3 1/2 | 48 | 12 | 8.80 |

Sizes Nos. 00, 1 and 15 are packed only with Rawhide Pins; Sizes Nos. 20, 25, 27, 35 and 45 are packed regularly with Rocker Pins but can be had with Rawhide Pins if so specified; Sizes Nos. 55, 65 and 75 are packed only with Section Steel Rocker Hinge Pins.

In Handy Packages, with Gauge and Hinge Pins

Per Package

| | |
|--|--------|
| No. 15-S—For Belts 3/8 to 1/2 in. Thick, Sufficient for 12 in. in Width, 6 in. Lengths | \$0.55 |
| No. 25-S—For Belts 1/2 to 3/4 in. Thick, Sufficient for 12 in. in Width, 6 in. Lengths | .70 |
| No. 27-S—For Belts 3/4 to 1 in. Thick, Sufficient for 12 in. in Width, 6 in. Lengths | .75 |
| No. 35-S—For Belts 1 to 1 1/4 in. Thick, Sufficient for 12 in. in Width, 6 in. Lengths | .95 |

Ten Packages in a Carton.

EXTRA HINGE PINS

Can be Cut to Suit Requirements

| Twisted Rawhide Pins | | | | | |
|----------------------|--------|-----|------|---------|---------|
| Diameter, Inches | 00 | 1/8 | 3/8 | 1/2 | 3/4 |
| For Lacing, Nos. | 00 | 1 | 15 | 20 & 25 | 20 & 25 |
| Length, Inches | 6 | 6 | 8 | 8 | 12 |
| Per Dozen | \$0.40 | .40 | .60 | .60 | .90 |
| Diameter, Inches | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 |
| For Lacing, Nos. | 27 | 35 | 35 | 45 | 45 |
| Length, Inches | 12 | 8 | 12 | 12 | 12 |
| Per Dozen | \$1.00 | .70 | 1.00 | 1.20 | |



Sectional Steel Rocker Pins

Per Dozen

| | |
|---|--------|
| No. 25—For Nos. 20 and 25 Lacing, 12 in. Long | \$0.90 |
| No. 27—For No. 27 Lacing, 12 in. Long | 1.00 |
| No. 35—For No. 35 Lacing, 12 in. Long | 1.00 |
| No. 45—For No. 45 Lacing, 12 in. Long | 1.20 |
| No. 65—For Nos. 55 and 65 Lacing, 12 in. Long | 1.40 |
| No. 75—For No. 75 Lacing, 12 in. Long | 1.70 |

CLIPPER BELT HOOKS

Made from special steel wire tempered to combine great tensile strength with ability to withstand strain. Anyone with ordinary ability can make a perfect joint with the Clipper System of lacing. Both sides of belt are alike—perfectly smooth. Hooks having a long and short side, zig zag the lace thus equalizing the strain. Joint is flexible with no chance of crystallization if hooks are properly driven or pressed into belt flush with surface.



12 Cards of 84 Hooks, Each in a Box, Complete with 14 Twisted Rawhide Pins (Except No. 1) Per Box

| | |
|---|--------|
| *No. 1—For Thin Belts Over Small Pulleys..... | \$0.80 |
| No. 2—For Thin Belts Over Small Sized Pulleys... | .80 |
| No. 3—For Thin Belts Over Medium Sized Pulleys... | .85 |
| No. 4—For Belts Not Over 1/4 in. Thick..... | .85 |
| No. 5—For Belts Not Over 3/8 in. Thick..... | 1.00 |
| No. 6—For Belts Not Over 1/2 in. Thick..... | 1.35 |

Sufficient hooks in a box to lace both ends of belt, total width 80 in., giving a joint whose smoothness eliminates all vibration.

*No. 1 Hooks are carded in 6 in. lengths, 20 cards to the box, sufficient for lacing 34 2-in. or 77 1-in. belts.



"Fac Simile" of Card of 84 Hooks, All Ready to Slip Into Lacer

With a pair of scissors, with which each lacer is equipped, the cards can be cut to suit the belt to be laced. Cut one edge of card, then the other, and bend slightly back and cut through the center. This can be done without displacing any of the hooks.

LACE PINS



Twisted Rawhide, 12 in. Long Per Bundle

| | |
|---|--------|
| No. 13—Diameter 3/32 in., for Hook Nos. 1, 2 and 3. | \$0.70 |
| No. 12—Diameter 1/16 in., for Hook No. 4..... | .70 |
| No. 11—Diameter 1/8 in., for Hook No. 5..... | .70 |
| No. 10—Diameter 3/16 in., for Hook No. 6..... | .80 |
| No. 9—Diameter 1/4 in., for Hook No. 6..... | .90 |
| No. 8—Diameter 5/16 in., for Hook No. 6..... | 1.00 |
| No. 7—Diameter 3/8 in., for Heavy Belt..... | 1.20 |
| No. 5—Diameter 1/2 in., for Heavy Belt..... | 1.60 |
| Assorted—13, 12, 11, 10, 9, 8..... | .75 |

Fibro Waterproof, 12 in. Long

| | | | | |
|------------------|--------|------|------|------|
| Nos. | 13-F | 12-F | 11-F | 10-F |
| Per Bundle | \$0.35 | .35 | .35 | .40 |
| Nos. | 9-F | 8-F | 7-F | 5-F |
| Per Bundle | \$0.45 | .50 | .60 | .70 |

Assorted—13-F, 12-F, 11-F, 10-F, 9-F and 8-F.....\$0.40
Twenty-four in a Bundle.

CROSS SECTION OF EMBEDDED HOOK



JOINED



DISJOINED

The secret of the success of "Clipper" Hooks lies in their design and the manner in which one hook is placed behind the other as shown above. While a powerful grip is thus assured, no belting fibres are cut or injured. The belt is not weakened at the joint.

CLIPPER BELT LACERS

STANDARD



Cast Iron Body, Steel Faced, All Working Parts Tempered and Case Hardened

No. 3—6 in. Wide, Operated by Two 9 in. Lever Handles, Laces Any Width or Thickness, Uses Hooks Nos. 2 to 6 Only, Weight Each 24 Lbs., \$25.00 One in a Box.

JUNIOR

Steel Frame and Working Parts Each

No. 1—For Belts Up to 2 in. Wide, No. 1 Clipper Hooks Only Can be Used in This Lacer, Especially Adapted for Use in Textile Mills, Watch and Clock Factories, Garages, etc., Weight Each 3 Lbs., \$10.00 One in a Box.

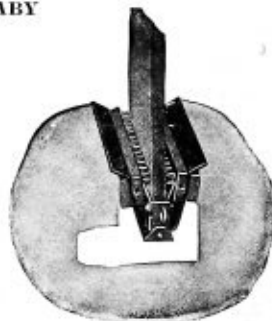


NEW BABY

Cast Steel Faced Each

No. 0—4 in., Laces Any Width and Thickness Up to 4 in. Wide and 3/8 in. Thick in One Operation, Uses Hooks Nos. 2 to 6 Only, Sets in a Vise, Works Quickly and Right, Little but Handy \$3.50

Convenient for use in tool room or any place where a vise is handy.



BABY JUNIOR

Cast Steel Faced Each

No. 101—Vise Lacer, Similar in Style to No. 0, But with the Same Properties as the No. 1 Junior, Laces Belts Up to 2 in., Uses No. 1 Clipper Hooks Only \$2.50



No. OC.

CLIPPER BELT CUTTERS

A tool for cutting belting from the roll as well as for squaring belt ends preparatory to lacing them.

Belts which are squared with the Clipper Belt Cutter will not cause any strain on any part of your belting fibre or lacing. Workmanship and material fully guaranteed.

Open End Each
No. OC\$15.00

Stationary End
No. SC12.00

STEEL BELT LACING

BRISTOL PATENT



Cold Rolled Steel, Smooth and Elastic Joints

Requires no special tools, does not cut belt fibres, each box contains enough to lace 100 inches in belt width.

For Leather Belts

Use No. 00 for Split Leather and Extra Light Belts, No. 0 for Split Leather and Light Belts, No. 1 for Ordinary Single Leather Belts, No. 2 for Extra Heavy and Wide



Single Belts, No. 3 for Double Leather Belts, No. 4 for Heavy Double Leather Belts and No. 5 for Extra Heavy Double Leather Belts.

| Nos. | 00 | 0 | 1 | 2 |
|-------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Thickness Belt, Inches. | $\frac{1}{8}$ - $\frac{1}{4}$ | $\frac{1}{8}$ - $\frac{1}{2}$ | $\frac{1}{8}$ - $\frac{3}{4}$ | $\frac{1}{4}$ - $\frac{1}{2}$ |
| Weight Per Box, Lbs. | $\frac{1}{4}$ | $\frac{5}{8}$ | 1 | 2 |
| Per Box | \$2.50 | 2.50 | 1.50 | 2.00 |
| Nos. | 3 | 4 | 5 | |
| Thickness Belt, Inches. | $\frac{1}{2}$ - $\frac{3}{4}$ | $\frac{3}{4}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - $\frac{1}{2}$ | |
| Weight Per Box, Lbs. | 2 $\frac{3}{4}$ | 3 $\frac{1}{2}$ | 4 $\frac{3}{4}$ | |
| Per Box | \$2.50 | 3.00 | 3.50 | |

100 Inches, Assorted Lengths, in a Box.

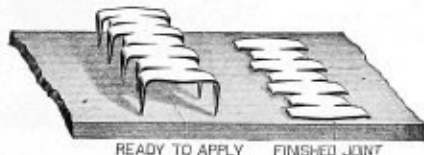
For Woven Belts

Use No. 100 for Lightest, No. 10 for Two-Ply, No. 11 for Three-ply, No. 12 for Four-ply, No. 13 for Five-ply, No. 14 for Six-ply, No. 15 for Seven-ply, No. 17 for Eight-ply and Extra Double Heavy Rubber and Cotton Belts, No. 19 for Ten-ply and Extra Heavy Conveyor Belts.



| Nos. | 12 | 13 | 14 |
|-------------------------|-------------------------------|-------------------------------|-------------------------------|
| Thickness Belt, Inches. | $\frac{1}{4}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - $\frac{3}{4}$ | $\frac{3}{4}$ - $\frac{1}{2}$ |
| Weight Per Box, Lbs. | 2 $\frac{3}{4}$ | 4 | 5 |
| Per Box | \$2.00 | 2.50 | 3.00 |

100 Inches, Assorted Lengths, in a Box.



For Leather, Woven and Rubber Belts

Use No. 1100 for Split Leather and Lightest Rubber and Cotton, No. 110 for

Split Leather and Light Rubber and Cotton, No. 110 $\frac{1}{2}$ for Ordinary Single Leather and Two-ply Rubber and Cotton, No. 111 for Ordinary Single Leather, and Three-ply Rubber and Cotton, No. 112 for Extra Heavy and Wide Single Leather and Four-ply Rubber and Cotton, No. 113 for Double Leather and Five-ply Rubber and Cotton, No. 114 for Heavy Double Leather and Six-ply Rubber and Cotton, No. 115 for Extra Heavy Double Leather and Seven-ply Rubber and Cotton, No. 117 for Conveyor Belt and Eight-ply Rubber and Cotton, for Ten-ply and Extra Heavy Conveyor.

| | | | |
|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| Nos. | 110 | 111 | 112 |
| Thickness Belt, Inches... | $\frac{1}{8}$ - $\frac{1}{2}$ | $\frac{1}{8}$ - $\frac{1}{4}$ | $\frac{1}{4}$ - $\frac{1}{2}$ |
| Weight Per Box, Lbs. | $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ |
| Per Box | \$2.50 | 1.50 | 2.00 |
| Nos. | 113 | 114 | 115 |
| Thickness Belt, Inches... | $\frac{1}{2}$ - $\frac{3}{4}$ | $\frac{3}{4}$ - $\frac{1}{2}$ | $\frac{1}{2}$ - $\frac{1}{2}$ |
| Weight Per Box, Lbs. | 3 $\frac{1}{2}$ | 4 $\frac{3}{4}$ | 5 $\frac{1}{2}$ |
| Per Box | \$2.50 | 3.00 | 3.50 |

100 Inches, Assorted Lengths, in a Box.

BELT LACING

RAWHIDE



Assorted Lengths, 100 Feet in a Bundle

| | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|
| Width, Inches | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Per Bundle | \$2.50 | 3.00 | 3.75 | 4.50 | 5.50 |
| Width, Inches | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 1 |
| Per Bundle | \$6.50 | 7.50 | 9.50 | 11.00 | |

WIRE



Malin's Composition

Leaves a joint no thicker than any other part of the belt, eliminating extra strain at this point.

50 Feet on a Spool Per 100 Feet

| | | |
|------------------|-----------------------------|--------|
| No. 00—For Belts | $\frac{1}{2}$ to 1 in. Wide | \$2.00 |
| No. 0—For Belts | 1 to 2 in. Wide | 2.00 |
| No. 1—For Belts | 2 to 6 in. Wide | 2.00 |
| No. 2—For Belts | 6 to 20 in. Wide | 2.00 |
| No. 3—For Belts | 20 to 40 in. Wide | 2.00 |

20 Spools in a Carton.

BELT HOOKS

STANDARD POINTED



Bright Steel

| Nos. | 1 | 2 | 3 | 4 | 5 |
|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Length Inside, Inches. | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ |
| Quantity in a Box | 100 | 100 | 100 | 100 | 100 |
| Per 100 | \$2.70 | 1.80 | 1.40 | 1.20 | 1.00 |
| Nos. | 6 | 7 | 8 | 9 | 10 |
| Length Inside, Inches. | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| Quantity in a Box | 200 | 200 | 200 | 300 | 300 |
| Per 100 | \$0.75 | .55 | .45 | .36 | .32 |
| Nos. | 11 | 12 | 13 | 14 | 15 |
| Length Inside, Inches. | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Quantity in a Box | 500 | 500 | 500 | 500 | 500 |
| Per 100 | \$0.27 | .25 | .23 | .21 | .18 |

BELT STUDS OR FASTENERS

BLAKE IMPROVED



Solid Brass, Can be Used Over and Over

The most practical Fastener made for Leather, or Rubber Belts Running at Very High Speed. Use No. 3 for Light Belts, No. 2 for Medium Heft Belts, No. 1 for Ordinary or Heavy Single Belts, No. 0 for Double Leather and Heavy Rubber Belts, No. 00 for Heaviest Belts.

100 in a Box.

| Nos. | 3 | 2 | 1 | 0 | 00 |
|---------------------|---------------|---------------|---------------|-----------------|-----------------|
| Length, Inches | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |
| Weight Per 100 Lbs. | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | 1 |
| Per 100 | \$0.90 | 1.25 | 1.65 | 2.00 | 2.50 |

BELT COUPLINGS



To Connect Round Belts. Sizes Given are Belt Diameters.

| | | | | | | |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Size, Inches | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Per Dozen Pairs | \$3.00 | 2.50 | 2.50 | 2.50 | 3.00 | 4.00 |

One Dozen in a Box.

BAR SOLDER

WARRANTED HALF AND HALF

1 $\frac{1}{4}$ Pound Bars Per Pound
 No. 5050—Highest Grade, Warranted 50% Tin and
 50% LeadMarket
 In 100 Pound Boxes.

TINKERS SOLDER

TINKER'S SOLDER

A Small Bar of Good Grade Solder for Tinner's Use.
 Per Pound
 Tinker's Solder—Length of Bar 6 in., Weight Per
 Gross 20 Lbs.Market
 One Gross in a Box.

ALUMINUM SOLDER

SUPREME BRAND

Will Solder Aluminum in All Forms

Used in foundries, pattern shops, automobile factories, garages, repair shops, sheet metal works, etc., and in the household for mending aluminum utensils.

Per Card
 No. 1—Consists of 12
 1-Oz. Bars, Trial Size,
 Mounted on an Attractive Display Card.
\$.

No. $\frac{1}{2}$ — $\frac{1}{2}$ Lb. Bars.
Each,

Open Stock,
 "NOFLUX"

ALUMINUM SOLDER

Solders Aluminum to Aluminum

"Noflux" Aluminum Solder can be used by anyone with an ordinary clean soldering iron, blow-pipe, or gasoline torch, and without flux, the part soldered will be and remain stronger than the metal solder, and the solder will not disintegrate, nor will it be separated by electricity.

Each
 2 Ounce Bar.\$0.50

WIRE SOLDER
KESTER ACID-CORE

$\frac{1}{8}$ in. Diameter, About 30 ft. to the Pound

Nos. 1 5
 Size Spool, Lbs. 1 5
 Per Pound\$0.75 .70

Kester Acid Core Wire Solder is self-fluxing. The solder (strictly tin and lead) is a hollow wire filled with a soldering flux in a series of cells or pockets. No additional flux is required, as the solder is melted off, just the proper amount of flux is released to insure a perfect bond.

STANDARD

Warranted Half and Half, 50% Tin
 and 50% Lead

For Electrical Purposes, Household
 and Automobile Use.

Per Pound
 11 Gauge.....Market

5, 10 and 50 Pound Spools.



SILVER SOLDER



Silver Solder is used where a particularly strong joint is needed or where the joint is to be subjected to considerable heat.
 For brazing band saws, etc.

$\frac{3}{4}$ in. Wide Per Ounce
 1 Ounce Box.....\$1.60

BABBITT METAL
MAGNOLIA

Cheaper and better than "Genuine" Babbitt. Never runs hot or cuts a shaft. Does not "break up." Used on all bearings, metallic packing, etc.

Per Pound
 Magnolia—Anti-Friction, Weight of Bar About 6
 Lbs.Market

No. 4



A low grade Babbitt Metal for slow speeds and light pressures; made to standard formula for this grade; 91% Lead, 9% Antimony.

Per Pound
 No. 4—Five Piece Bars, Weight About 7 Lbs., About
 100 Lbs. in a Case.....Market

SPELTER SOLDER



For brazing copper, brass, steel and cast iron. Can be absolutely relied upon for free flowing and strength of seam.

Fine Round Grain, Free Flowing Per Pound
 Spelter Solder—5 Lb. Package.....\$0.30

ROSIN



Used by Tinsmiths, Roofers and Tinkers in soldering joints, as a flux to make the solder flow, and by Varnish Makers as a gum, in cheap varnishes.

Per Pound
 No. R—Lump\$0.15
 In Casks, About 500 Pounds.

SOLDERING SALTS

YAGER

The Original Yager's Twice Improved

A chemically pure flux in the form of a dry salt, made of the purest raw materials which makes the best flux for soldering tin, copper, brass, iron or steel, one to the other. It makes the joints stronger than the metal. Can be used in any climate or weather.



Size Can, Lbs. $\frac{1}{2}$ 1
 Per Pound\$1.20 1.00

SOLDERING COMPOUND



REDUCTO

Will tin a soldering iron, pipe and bolts.

Solders black iron, rusty metal, stainless steel, galvanized iron, brass and copper without filing, cleaning or the use of acids.

Good for home use.

| | | |
|----------|--------|-------|
| Size Can | 1 lb. | 2 oz. |
| Each | \$0.75 | .25 |

SOLDERING PASTE

OAKWOOD

Made of highest chemicals, and is most attractively and conveniently boxed. Unequaled for general use.

Oakwood Soldering Paste is used and endorsed by thousands in various trades.



| | | | | |
|---------------|--------|------|------|-------|
| Size Can, Oz. | 2 | 4 | 8 | 16 |
| Per Dozen | \$3.00 | 4.80 | 8.40 | 12.00 |

2 to 8 Ounce Cans, One Dozen; 1 Pound Cans, One-half Dozen in a Carton.

WELDING COMPOUND

E-Z



Adheres to the metal at low heat, and is equally good for "Lap," "Split," "Butt" or "Jump" Welding. Enables the smith to weld Tool, Plow, Open Hearth and Bessemer Steel at 250° lower heat than any other compound, besides making stronger and smoother welds. Welds steel as easily as iron.

| | | | | |
|------------------|--------|-----|-----|-----|
| Size Boxes, Lbs. | 5 | 10 | 25 | 50 |
| Per Pound | \$0.13 | .13 | .12 | .12 |

| | |
|-----------------|------------|
| Size Drum, Lbs. | 100 |
| Per Pound | \$0.11 3/4 |

COTTON WASTE

Fine Long Thread, Machine Cop, Superior Quality, clean and free from knots and lumps.



White Cayuga

| | | | | | |
|---------------------------|---|----|----|----|-----|
| Size Bale, Lbs. | 5 | 10 | 25 | 50 | 100 |
| Best Grade, Per Pound, \$ | | | | | |
| Med. Grade, Per Pound, \$ | | | | | |

White, Auto Pak

One Pound Bales, Market

SOLDERALL



A Metal in a collapsible tube for soldering all Metals, except Aluminum. No Flux is required. 50 per cent tin and 50 per cent lead.

Takes less heat than bar or wire solder. No soldering outfit necessary.

Solderall—Put Up in Metal Tubes Containing Enough for About 50 Mends. Per Dozen One Dozen in a Display Box. \$3.00

CEMENT

DITMAN'S EVER-READY



Always ready for use, transparent, colorless, will match any color, heat and fire-proof. Can be used for lamp globes and chimneys. Mends everything, glass, china, metal, wood, rubber, marble, ivory, leather, etc.

Per Dozen

Ditman's Ever-Ready—In 3/4 x 3 in. Self-sealing Collapsible Tubes, Easy to Apply, no Brush or Stick Required \$1.75

One Dozen Tubes on a Display Card.

IRON CEMENT

SMOOTH-ON, POWDER FORM

In Blue Labeled Cans



Sold in powder form, applied as a putty by mixing water, then becomes hard like iron.

Some uses—Repairing leaks or breaks in iron or steel castings, making hot or cold joints, stopping leaks of steam, water, fire, oil or gas in boilers, furnaces, stoves, radiators, pipes, tanks, water jackets, etc. Used on iron, steel, brass, copper, aluminum, wood, etc.

No. 1—Quick Hardening

| | | | | |
|-----------------------|--------|-----|-----|-----|
| Size of Cans, Lbs. | 1 | 5 | 10 | 25 |
| Cans in Case | 60 | 12 | 6 | .. |
| Weight Per Case, Lbs. | 79 | 72 | 79 | 25 |
| Per Pound | \$0.60 | .50 | .50 | .50 |

No. 2—Slow Hardening

| | | | | |
|--------------------|--------|-----|-----|-----|
| Size of Cans, Lbs. | 1 | 5 | 10 | 25 |
| Per Pound | \$0.60 | .50 | .50 | .50 |

SMOOTH-ON, PASTE FORM

In Gray Labeled Cans

An Elastic Iron Cement made and sold in paste form, ready for use. Some uses—Making screw-thread joints, coating gaskets, painting boiler seams, etc. For boiler patch compound, use by mixing with Smooth-On Iron Cement No. 1. Apply as a paint, paste or putty.



No. 3—For Screw Thread and Gasket Joints

| | | | |
|-----------------------|--------|-----|-----|
| Size of Cans, Lbs. | 1 | 5 | 10 |
| Cans in Case | 60 | 12 | 6 |
| Weight Per Case, Lbs. | 75 | 74 | 75 |
| Per Pound | \$0.50 | .50 | .50 |

"SURE-GRIP" GLUE

An Animal, Not a Liquid Glue

A First Quality, High Grade Hide Glue ready for use when warmed. It is not affected by dry heat or any other atmospheric conditions.

Will not dry up in the can and will not deteriorate in any way.

Is most economical, sets quickly, and will not injure a varnished surface.



Per Dozen

Household Size — Weight Per Dozen 4 1/2 Lbs. \$3.00

One Dozen in a Counter Display Carton.

Pint—Weight Per Dozen 15 Lbs. \$12.00

Quart—Weight Per Dozen 35 Lbs. 21.60

One-half Dozen in a Carton.

LIQUID GLUE

LE PAGE'S

The recognized standard for adhesives the world over. For convenience and strength it stands supreme.



Family Size

No. 27—In Patent Self-Sealing Tubes, $\frac{3}{4}$ x 4 in., with Patent Plug Seal Spreader Attachment, No Waste, No Dirt, Weight Per Dozen 1 $\frac{1}{2}$ Lbs. \$2.40
One in a Carton, One Dozen in a Display Box.



No. 25.

Family Size

Per Dozen

No. 25—Small Bottles, with Patent Cap and Spreader, Weight Per Dozen 2 $\frac{1}{2}$ Lbs. \$2.40

No. 30—1 Gall Cans, with Friction Top Cover and Spreader, Weight Per Dozen 5 $\frac{1}{2}$ Lbs. 3.60
One Dozen in a Box.



Nos. 30 to 33.

Mechanics Size

In Patented Top Tin Cans

| Nos. | 31 | 32 | 33 | 35 |
|--------------------|-------------------|-------|-------|--------|
| Capacity Can | $\frac{1}{2}$ Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Weight Dozen, Lbs. | 10 | 18 | 35 | 144 |
| Per Dozen | \$6.00 | 10.20 | 18.00 | 54.00 |

No. 31, Two Dozen; Nos. 32 and 33 One Dozen; No. 35 One-half Dozen in a Case.

DRY GLUE

GLOUCESTER SHEET No. 1122

An excellent sheet glue of imported quality, adapted to cabinet making, pattern making and all wood jointing.

Will take 1 to 1 $\frac{1}{2}$ parts of cold water to 1 part of glue and make a strong permanent joint.

In Bulk, Per Pound. \$0.30

FLAKE No. 1282

Made from pure hide stock. Used on high grade furniture, cabinet making. Makes a joint of maximum strength and holding quality. Color will not show on light woods.

In Bulk, Per Pound. \$0.45

GROUND No. 1226

Light in color, sweet in odor and will not cake during warm weather. Adapted to sizing walls and woodwork. Known for its excellent water-taking quality.

In Bulk, Per Pound. \$0.30

NOODLE No. 4035

Made in noodle form for those who desire glues of the old type noodle grade. Will take 1 to 1 $\frac{1}{2}$ parts of water to 1 part of glue by weight. Will make a very strong joint.

In Bulk, Per Pound. \$0.45

FISH GLUE

XXF GRADE



Used for manufacturing purposes in connection with shoes and articles of a similar nature. Not used so extensively on woodwork.

A straight liquid fish glue, chemicalled and preserved.
Size Can, Gals. $\frac{1}{4}$ 1
Per Dozen \$12.00 36.00

GLUE POTS

CAST IRON

Strong Wire Bails

Two Parts, Painted Black Outside, White Enamel Lined



| Nos. | 000 | 00 | 0 |
|----------------|---------------|-----------------|-----------------|
| Capacity, Pts. | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Per Dozen | \$14.50 | 15.00 | 15.50 |
| Nos. | 1 | 2 | 3 |
| Capacity, Pts. | 1 | 2 | 2 $\frac{1}{2}$ |
| Per Dozen | \$18.00 | 18.75 | 22.00 |
| Nos. | 4 | 5 | |
| Capacity, Pts. | 3 | 3 $\frac{1}{2}$ | |
| Per Dozen | \$28.60 | 30.80 | |

Open Stock.

CARBORUNDUM GRAIN

In 1 and 5 Lb. Tin Cans



There is no Abrasive equal to Carborundum for cutting and producing a clean, sharp edge or surface. There are many uses for grain for grinding purposes.

Graded by passing through a sieve same as emery.

Nos. 6, 8, 10, 12, 14, 16, 20, 24, 30, 36, 40, 50, 60, 70, 80, 90, 100, 120, 150, 180, 220.

Size Can, Lbs. 1 5
Per Pound (Any Grit) \$0.40 .30

CARBORUNDUM POWDER

In 1 and 5 Pound Tin Cans

Powders are the grain too fine to size by ordinary sieving. They are graded by floating in water.

Grades F, FF, FFF.

Size Can, Lbs. 1 5
Per Pound (Any Grade) \$0.40 .50

EMERY
PURE TURKISH

60



90



120



F

Used by wood and metal workers for polishing and buffing. Numbers designate the size of grain which corresponds to the mesh of screen it will pass through.

Coarse Grain

Nos. 30 40 50
Per Lb., in 75 Lb. Kegs. \$0.15 .15 .15

Fine Grain

Nos. 60, 70, 80, 90, 100, 120, 140, 160, 180
Per Lb., in 75 Lb. Kegs. \$0.15

Flour Emery

Nos. F FF
Per Lb., in 300 Lb. Kegs. \$0.15 .15

FLINT PAPER

MAPBRAND IN SHEETS



480 Sheets in a Ream.

9x11 Inches

| Nos. | Wt. Ream, Lbs. | Per Ream |
|-------|----------------|----------|
| 0000 | 17 | \$ 7.50 |
| 000 | 17 | 7.50 |
| 00 | 18 | 7.50 |
| 0 | 19 | 7.50 |
| 1/2 | 22 | 7.95 |
| 1 | 27 | 9.00 |
| 1 1/2 | 35 | 10.50 |
| 2 | 42 | 12.15 |
| 2 1/2 | 53 | 13.95 |
| 3 | 56 | 15.90 |
| 3 1/2 | 71 | 17.85 |
| 4 | 74 | 20.40 |

MAPBRAND IN NEATPAK BOXES

No Waste, Saves Time, Less Handling

Mapbrand Flint Papers and Emery Cloth are now offered in Neatpak boxes embracing the following features:

1—Neatpak boxes are strong, cardboard boxes giving complete protection to merchandise while in transit or in dealer's stock.

2—Priced by the 100 sheets based on suggested resale prices makes easy figuring of costs and profits.

3—Makes attractive shelf display of merchandise, the special drawer-like box interior making every sheet instantly available without disturbing shelf arrangement.

A great convenience to the dealer.



U. S. FLINT PAPER

9x11

| Grit No. | Sheets Per Box | Per 100 Sheets | Grit No. | Sheets Per Box | Per 100 Sheets |
|----------|----------------|----------------|----------|----------------|----------------|
| 00 | 100 | \$2.25 | 1 1/2 | 50 | \$3.20 |
| 0 | 100 | 2.25 | 2 | 50 | 3.70 |
| 1/2 | 100 | 2.40 | 2 1/2 | 50 | 4.25 |
| 1 | 75 | 2.75 | 3 | 25 | 4.85 |

U. S. EMERY CLOTH

9x11

| Grit No. | Sheets Per Box | Per 100 Sheets | Grit No. | Sheets Per Box | Per 100 Sheets |
|----------|----------------|----------------|----------|----------------|----------------|
| 00 | 75 | \$13.30 | 1 1/2 | 50 | \$15.30 |
| 0 | 75 | 13.30 | 2 | 50 | 16.30 |
| 1/2 | 75 | 13.90 | 2 1/2 | 25 | 17.60 |
| 1 | 50 | 14.60 | 3 | 25 | 18.90 |

"HANDY PACKAGE" FLINT



Per Dozen Packages

"Handy Package"—Consists of 20 Sheets of Flint Sand Paper. Practical Assortment of Grits in a 4 3/4 x 5 1/4 in. Size Handy for the Dealer and User.... \$2.00

Six Dozen Packages in a Carton.

FLINT PAPER

IN ROLLS



Extra Quality

Rolls 50 Yards Long

Per Roll

| Width Inches | Nos. 3/0 | No. 0 | No. 1/2 | No. 1 | No. 1 1/2 | No. 2 | No. 2 1/2 | No. 3 |
|--------------|----------|--------|---------|--------|-----------|--------|-----------|--------|
| 1/2 | \$0.67 | \$0.72 | \$0.80 | \$0.88 | \$0.97 | \$1.06 | \$1.15 | \$1.25 |
| 1 | 1.15 | 1.25 | 1.40 | 1.55 | 1.75 | 1.90 | 2.10 | 2.30 |
| 1 1/2 | 1.60 | 1.75 | 2.00 | 2.25 | 2.51 | 2.80 | 3.05 | 3.35 |
| 2 | 2.10 | 2.30 | 2.60 | 2.95 | 3.30 | 3.65 | 4.00 | 4.40 |
| 2 1/2 | 2.55 | 2.80 | 3.20 | 3.60 | 4.05 | 4.50 | 4.95 | 5.45 |
| 3 | 3.05 | 3.35 | 3.80 | 4.30 | 4.85 | 5.40 | 5.95 | 6.50 |
| 3 1/2 | 3.50 | 3.85 | 4.40 | 5.00 | 5.60 | 6.25 | 6.90 | 7.55 |
| 4 | 4.00 | 4.40 | 5.00 | 5.65 | 6.40 | 7.10 | 7.85 | 8.60 |
| 5 | 4.95 | 5.40 | 6.20 | 7.05 | 7.90 | 8.85 | 9.75 | 10.70 |
| 6 | 5.90 | 6.45 | 7.40 | 8.40 | 9.45 | 10.55 | 11.65 | 12.80 |
| 7 | 6.85 | 7.50 | 8.60 | 9.75 | 11.00 | 12.30 | 13.55 | 14.85 |
| 8 | 7.80 | 8.55 | 9.85 | 11.15 | 12.55 | 14.05 | 15.50 | 16.95 |
| 9 | 8.75 | 9.60 | 11.05 | 12.50 | 14.10 | 15.75 | 17.40 | 19.05 |
| 10 | 9.70 | 10.65 | 12.25 | 13.85 | 15.65 | 17.50 | 19.30 | 21.15 |
| 12 | 11.60 | 12.70 | 14.65 | 16.60 | 18.70 | 20.95 | 23.10 | 25.35 |
| 14 | 13.45 | 14.80 | 17.05 | 19.35 | 21.80 | 24.40 | 26.95 | 29.55 |
| 15 | 14.40 | 15.85 | 18.25 | 20.70 | 23.35 | 26.15 | 28.85 | 31.65 |
| 16 | 15.35 | 16.90 | 19.45 | 22.05 | 24.90 | 27.85 | 30.75 | 33.75 |
| 18 | 17.25 | 19.00 | 21.85 | 24.80 | 28.00 | 31.30 | 34.60 | 37.90 |
| 20 | 19.15 | 21.10 | 24.30 | 27.55 | 31.10 | 34.80 | 38.40 | 42.10 |
| 24 | 20.50 | 22.70 | 26.30 | 30.00 | 34.00 | 38.20 | 42.30 | 46.50 |
| 26 | 23.40 | 25.80 | 29.70 | 33.70 | 38.00 | 42.55 | 47.00 | 51.55 |
| 27 | 24.25 | 26.75 | 30.80 | 34.95 | 39.45 | 44.15 | 48.80 | 53.50 |
| 30 | 25.60 | 28.35 | 32.85 | 37.50 | 42.50 | 47.75 | 52.85 | 58.10 |
| 31 | 27.70 | 30.50 | 35.20 | 39.95 | 45.10 | 50.55 | 55.85 | 61.30 |
| 36 | 30.75 | 34.05 | 39.45 | 45.00 | 51.00 | 57.30 | 63.45 | 69.75 |

EMERY PAPER

MAPBRAND IN SHEETS



9x11

| No. | Wt. Ream, Lbs. | Per Ream |
|-------|----------------|----------|
| 000 | 24 | \$10.00 |
| 00 | 24 | 10.00 |
| 0 | 24 | 10.00 |
| 1/2 | 29 | 10.80 |
| 1 | 37 | 11.90 |
| 1 1/2 | 41 | 13.60 |
| 2 | 44 | 15.70 |
| 2 1/2 | 46 | 18.00 |
| 3 | 56 | 20.50 |

480 Sheets in a Ream.

GARNET PAPER

MAPBRAND IN SHEETS

9x11 in.

| Nos. | Wt. Ream, Lbs. | Per Ream |
|-------|----------------|----------|
| 000 | 19 | \$22.50 |
| 00 | 26 | 22.50 |
| 0 | 29 | 25.00 |
| 1/2 | 40 | 29.00 |
| 1 | 51 | 33.00 |
| 1 1/2 | 61 | 37.50 |
| 2 | 70 | 42.00 |
| 2 1/2 | 77 | 46.50 |

| Nos. | Weight Ream, Lbs. | Per Ream |
|-------|-------------------|----------|
| 3 | 83 | \$51.20 |
| 3 1/2 | 91 | 56.30 |

480 Sheets in a Ream.



GARNET PAPER

IN ROLLS



Rolls 50 Yards Long

Per Roll

| Width Inches | Nos. 3/0 -2/0 | No. 0 | No. 1/2 | No. 1 | No. 1 1/2 | No. 2 | No. 2 1/2 | No. 3 |
|-----------------|---------------------|----------|------------|----------|--------------|----------|--------------|----------|
| 1/2 | \$0.67 | 1.75 | 1.80 | 1.88 | 1.97 | 1.06 | 1.15 | 1.25 |
| 1 | 1.15 | 1.25 | 1.40 | 1.55 | 1.75 | 1.90 | 2.10 | 2.30 |
| 1 1/2 | 1.60 | 1.75 | 2.00 | 2.25 | 2.50 | 2.80 | 3.05 | 3.35 |
| 2 | 2.10 | 2.30 | 2.60 | 2.95 | 3.30 | 3.65 | 4.00 | 4.40 |
| 2 1/2 | 2.55 | 2.80 | 3.20 | 3.60 | 4.05 | 4.50 | 4.95 | 5.45 |
| 3 | 3.05 | 3.35 | 3.80 | 4.30 | 4.85 | 5.40 | 5.95 | 6.50 |
| 3 1/2 | 3.50 | 3.85 | 4.40 | 5.00 | 5.60 | 6.25 | 6.90 | 7.55 |
| 4 | 4.00 | 4.40 | 5.00 | 5.65 | 6.40 | 7.10 | 7.85 | 8.60 |
| 5 | 4.95 | 5.40 | 6.20 | 7.05 | 7.90 | 8.85 | 9.75 | 10.70 |
| 6 | 5.90 | 6.45 | 7.40 | 8.40 | 9.45 | 10.55 | 11.65 | 12.80 |
| 7 | 6.85 | 7.50 | 8.60 | 9.75 | 11.00 | 12.30 | 13.55 | 14.85 |
| 8 | 7.80 | 8.55 | 9.85 | 11.15 | 12.55 | 14.05 | 15.50 | 16.95 |
| 9 | 8.75 | 9.60 | 11.05 | 12.50 | 14.10 | 15.75 | 17.40 | 19.05 |
| 10 | 9.70 | 10.65 | 12.25 | 13.85 | 15.65 | 17.50 | 19.30 | 21.15 |
| 12 | 11.60 | 12.70 | 14.65 | 16.60 | 18.70 | 20.95 | 23.10 | 25.35 |
| 14 | 13.45 | 14.80 | 17.05 | 19.35 | 21.80 | 24.40 | 26.95 | 29.55 |
| 15 | 14.40 | 15.85 | 18.25 | 20.70 | 23.35 | 26.15 | 28.85 | 31.65 |
| 16 | 15.35 | 16.90 | 19.45 | 22.05 | 24.90 | 27.85 | 30.75 | 33.75 |
| 18 | 17.25 | 19.00 | 21.85 | 24.80 | 28.00 | 31.30 | 34.60 | 37.90 |
| 20 | 19.15 | 21.10 | 24.30 | 27.55 | 31.10 | 34.80 | 38.40 | 42.10 |
| 24 | 20.50 | 22.70 | 26.30 | 30.00 | 34.00 | 38.20 | 42.30 | 46.50 |
| 26 | 23.40 | 25.80 | 29.70 | 33.70 | 38.00 | 42.55 | 47.00 | 51.55 |
| 27 | 24.25 | 26.75 | 30.80 | 34.95 | 39.45 | 44.15 | 48.80 | 53.60 |
| 30 | 25.60 | 28.35 | 32.85 | 37.50 | 42.50 | 47.75 | 52.85 | 58.10 |
| 31 | 27.70 | 30.50 | 35.20 | 39.95 | 45.10 | 50.55 | 55.85 | 61.30 |
| 36 | 30.75 | 34.05 | 39.45 | 45.00 | 51.00 | 57.30 | 63.45 | 69.75 |
| 40 | 34.15 | 37.85 | 43.85 | 50.00 | 56.70 | 63.70 | 70.50 | 77.50 |
| 42 | 35.85 | 39.70 | 46.00 | 52.50 | 59.50 | 66.85 | 74.00 | 81.40 |
| 44 | 38.80 | 42.80 | 49.40 | 56.20 | 63.50 | 71.20 | 78.85 | 86.45 |
| 48 | 41.00 | 45.40 | 52.60 | 60.00 | 68.00 | 76.40 | 84.60 | 92.00 |

GARNET CLOTH

IN ROLLS

Rolls 50 Yards Long

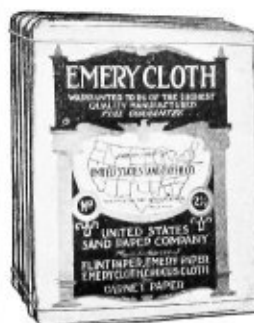
Per Roll

| Width Inches | Nos. 4/0 -3/0 | No. 0 | No. 1/2 | No. 1 | No. 1 1/2 | No. 2 | No. 2 1/2 | No. 3 |
|-----------------|---------------------|----------|------------|----------|--------------|----------|--------------|----------|
| 1/2 | \$ 1.20 | 1.40 | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 2.00 |
| 1 | 2.45 | 2.55 | 2.80 | 2.95 | 3.15 | 3.40 | 3.60 | 3.85 |
| 1 1/2 | 3.55 | 3.75 | 4.05 | 4.35 | 4.65 | 5.00 | 5.30 | 5.65 |
| 2 | 4.70 | 4.95 | 5.35 | 5.70 | 6.10 | 6.55 | 7.00 | 7.50 |
| 2 1/2 | 5.80 | 6.15 | 6.65 | 7.10 | 7.60 | 8.15 | 8.75 | 9.30 |
| 3 | 6.90 | 7.30 | 7.95 | 8.45 | 9.05 | 9.75 | 10.45 | 11.15 |
| 3 1/2 | 8.05 | 8.50 | 9.20 | 9.85 | 10.55 | 11.35 | 12.15 | 12.95 |
| 4 | 9.15 | 9.70 | 10.50 | 11.25 | 12.00 | 12.95 | 13.85 | 14.80 |
| 5 | 11.40 | 12.05 | 13.10 | 14.00 | 15.00 | 16.15 | 17.25 | 18.45 |
| 6 | 13.65 | 14.45 | 15.65 | 16.75 | 17.95 | 19.30 | 20.65 | 22.05 |
| 7 | 15.90 | 16.80 | 18.25 | 19.50 | 20.90 | 22.50 | 24.10 | 25.70 |
| 8 | 18.15 | 19.20 | 20.80 | 22.25 | 23.85 | 25.70 | 27.50 | 29.35 |
| 9 | 20.35 | 21.55 | 23.40 | 25.00 | 26.80 | 28.85 | 30.90 | 33.00 |
| 10 | 22.60 | 23.95 | 25.95 | 27.80 | 29.75 | 32.05 | 34.30 | 36.65 |
| 12 | 27.10 | 28.70 | 31.10 | 33.30 | 35.65 | 38.45 | 41.15 | 43.95 |
| 14 | 31.55 | 33.40 | 36.30 | 38.80 | 41.60 | 44.80 | 47.95 | 51.25 |
| 15 | 33.80 | 35.80 | 38.85 | 41.55 | 44.55 | 48.00 | 51.35 | 54.90 |
| 16 | 36.05 | 38.15 | 41.45 | 44.35 | 47.50 | 51.20 | 54.80 | 58.50 |
| 18 | 40.55 | 42.90 | 46.60 | 49.85 | 53.40 | 57.55 | 61.60 | 65.80 |
| 20 | 45.00 | 47.65 | 51.75 | 55.35 | 59.30 | 63.90 | 68.40 | 73.10 |
| 24 | 49.80 | 52.80 | 57.40 | 61.50 | 66.00 | 71.20 | 76.30 | 81.60 |
| 27 | 57.25 | 60.60 | 65.80 | 70.40 | 75.45 | 81.30 | 87.05 | 93.00 |
| 28 | 58.00 | 61.60 | 66.90 | 71.70 | 77.00 | 83.00 | 90.00 | 95.20 |

EMERY CLOTH

IN SHEETS

9x11 in.

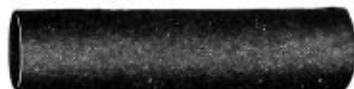


| Nos. | Wt. Ream, Lbs. | Per Ream |
|--------|-------------------|-------------|
| Crocus | 31 | \$30.00 |
| 000 | 31 | 30.00 |
| 00 | 31 | 30.00 |
| 0 | 31 | 30.00 |
| 1/2 | 38 | 31.20 |
| 1 | 43 | 32.75 |
| 1 1/2 | 47 | 34.30 |
| 2 | 56 | 36.50 |
| 2 1/2 | 69 | 39.40 |
| 3 | 71 | 42.50 |
| 3 1/2 | 90 | 46.00 |
| 4 | 116 | 51.00 |

24 Sheets in a Quire; 20 Quires in a Ream.

EMERY CLOTH

IN ROLLS



Per Roll

Rolls 50 Yards Long

| Width Inches | Nos. FF -2/0 | No. 0 | No. 1/2 | No. 1 | No. 1 1/2 | No. 2 | No. 2 1/2 | No. 3 |
|-----------------|--------------------|----------|------------|----------|--------------|----------|--------------|----------|
| 3 | \$ 6.90 | 7.30 | 7.95 | 8.45 | 9.05 | 9.75 | 10.45 | 11.15 |
| 3 1/2 | 8.05 | 8.50 | 9.20 | 9.85 | 10.55 | 11.35 | 12.15 | 12.95 |
| 4 | 9.15 | 9.70 | 10.50 | 11.25 | 12.00 | 12.95 | 13.85 | 14.80 |
| 5 | 11.40 | 12.05 | 13.10 | 14.00 | 15.00 | 16.15 | 17.25 | 18.45 |
| 6 | 13.65 | 14.45 | 15.65 | 16.75 | 17.95 | 19.30 | 20.65 | 22.05 |
| 7 | 15.90 | 16.80 | 18.25 | 19.50 | 20.90 | 22.50 | 24.10 | 25.70 |
| 8 | 18.15 | 19.20 | 20.80 | 22.25 | 23.85 | 25.70 | 27.50 | 29.35 |
| 9 | 20.35 | 21.55 | 23.40 | 25.00 | 26.80 | 28.85 | 30.90 | 33.00 |
| 10 | 22.60 | 23.95 | 25.95 | 27.80 | 29.75 | 32.05 | 34.30 | 36.65 |
| 12 | 27.10 | 28.70 | 31.10 | 33.30 | 35.65 | 38.45 | 41.15 | 43.95 |
| 14 | 31.55 | 33.40 | 36.30 | 38.80 | 41.60 | 44.80 | 47.95 | 51.25 |
| 15 | 33.80 | 35.80 | 38.85 | 41.55 | 44.55 | 48.00 | 51.35 | 54.90 |
| 16 | 36.05 | 38.15 | 41.45 | 44.35 | 47.50 | 51.20 | 54.80 | 58.50 |
| 18 | 40.55 | 42.90 | 46.60 | 49.85 | 53.40 | 57.55 | 61.60 | 65.80 |
| 20 | 45.00 | 47.65 | 51.75 | 55.35 | 59.30 | 63.90 | 68.40 | 73.10 |
| 24 | 49.80 | 52.80 | 57.40 | 61.50 | 66.00 | 71.20 | 76.30 | 81.60 |
| 27 | 57.25 | 60.60 | 65.80 | 70.40 | 75.45 | 81.30 | 87.05 | 93.00 |

IN "CONVENIENT" ROLLS



Saves slitting and is very convenient for the operator.

Wound on Spools of 50 Yards Each

| Width Inches | No. 180-120 2/0-0 | No. 90 1/2 | No. 80 1 | No. 70 1 1/2 | No. 60 2 | No. 46 2 1/2 | No. 36 3 |
|-----------------|-------------------------|------------------|----------------|--------------------|----------------|--------------------|----------------|
| 1/2-1/2 | \$1.20 | 1.25 | 1.30 | 1.35 | 1.45 | 1.50 | 1.55 |
| 3/4 | 1.55 | 1.60 | 1.65 | 1.75 | 1.85 | 1.95 | 2.05 |
| 1 | 1.85 | 1.90 | 2.00 | 2.15 | 2.25 | 2.35 | 2.50 |
| 1 1/2 | 2.50 | 2.60 | 2.75 | 2.90 | 3.05 | 3.25 | 3.45 |
| 2 | 3.10 | 3.25 | 3.40 | 3.65 | 3.85 | 4.15 | 4.45 |
| 2 1/2 | 3.75 | 3.90 | 4.15 | 4.40 | 4.70 | 5.00 | 5.40 |

CARBALOX CLOTH

Wound on Spools of 50 Yards Each

| Width Inches | No. 320 to 100 | No. 80 | No. 60 | No. 50 | No. 40 | No. 36 | No. 30 |
|-----------------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1/2 | \$1.75 | 1.85 | 1.95 | 2.05 | 2.15 | 2.25 | 2.35 |
| 3/4 | 2.35 | 2.45 | 2.60 | 2.70 | 2.85 | 3.05 | 3.20 |
| 1 | 2.90 | 3.00 | 3.25 | 3.40 | 3.60 | 3.85 | 4.05 |
| 1 1/2 | 4.05 | 4.20 | 4.50 | 4.80 | 5.10 | 5.45 | 5.75 |
| 2 | 5.15 | 5.40 | 5.80 | 6.15 | 6.55 | 7.00 | 7.45 |

GARNET PAPER

DISCS AND CIRCLES



Per Hundred

| Diam. Inches | Nos. 5/0 -2/0 | No. 0 | No. 1/2 | No. 1 | No. 1 1/2 | No. 2 | No. 2 1/2 | No. 3 |
|-----------------|---------------------|----------|------------|----------|--------------|----------|--------------|----------|
| 1 | \$0.50 | .50 | .50 | .50 | .55 | .55 | .55 | .55 |
| 2 | .65 | .70 | .70 | .75 | .80 | .85 | .90 | .90 |
| 3 | .90 | .95 | 1.05 | 1.15 | 1.25 | 1.35 | 1.40 | 1.50 |
| 3 1/2 | 1.10 | 1.15 | 1.25 | 1.40 | 1.50 | 1.65 | 1.75 | 1.90 |
| 4 | 1.30 | 1.40 | 1.50 | 1.65 | 1.85 | 2.00 | 2.20 | 2.35 |
| 5 | 1.80 | 1.95 | 2.15 | 2.40 | 2.65 | 2.95 | 3.20 | 3.45 |
| 6 | 2.45 | 2.65 | 2.95 | 3.30 | 3.65 | 4.05 | 4.45 | 4.80 |
| 8 | 4.45 | 4.80 | 5.40 | 6.00 | 6.65 | 7.35 | 8.00 | 8.70 |
| 9 | 5.80 | 6.25 | 7.00 | 7.75 | 8.55 | 9.45 | 10.30 | 11.15 |
| 10 | 7.20 | 7.75 | 8.65 | 9.60 | 10.60 | 11.70 | 12.75 | 13.80 |
| 12 | 10.60 | 11.45 | 12.75 | 14.10 | 15.60 | 17.15 | 18.65 | 20.20 |
| 14 | 15.00 | 16.10 | 17.40 | 19.75 | 21.75 | 23.85 | 25.90 | 28.00 |
| 15 | 17.65 | 18.90 | 21.00 | 23.10 | 25.40 | 27.80 | 30.20 | 32.60 |
| 16 | 20.40 | 21.80 | 24.15 | 26.60 | 29.20 | 31.95 | 34.60 | 37.35 |
| 18 | 25.90 | 27.70 | 30.70 | 33.75 | 37.05 | 40.50 | 43.90 | 47.40 |
| 20 | 31.25 | 33.50 | 37.15 | 40.95 | 45.05 | 49.30 | 53.50 | 57.80 |
| 22 | 36.80 | 39.50 | 43.95 | 48.55 | 53.45 | 58.65 | 63.70 | 68.90 |
| 24 | 42.70 | 45.95 | 51.25 | 56.65 | 62.55 | 68.70 | 74.75 | 80.90 |
| 25 | 45.80 | 49.35 | 53.05 | 60.95 | 67.35 | 74.05 | 80.60 | 87.30 |
| 26 | 48.80 | 52.60 | 58.80 | 65.15 | 72.05 | 79.30 | 86.40 | 93.60 |
| 27 | 51.80 | 55.90 | 62.60 | 69.45 | 76.90 | 84.70 | 92.35 | 100.15 |
| 28 | 55.30 | 59.70 | 66.90 | 74.30 | 82.25 | 90.65 | 98.90 | 107.30 |
| 29 | 58.50 | 63.25 | 70.95 | 78.90 | 87.45 | 96.45 | 105.30 | 114.30 |
| 30 | 61.90 | 66.95 | 75.20 | 83.70 | 92.90 | 102.50 | 111.95 | 121.60 |
| 31 | 65.35 | 70.75 | 79.55 | 88.60 | 98.40 | 108.70 | 118.80 | 129.05 |
| 32 | 69.20 | 75.00 | 84.35 | 94.05 | 104.50 | 115.45 | 126.20 | 137.15 |
| 33 | 72.85 | 79.00 | 89.00 | 99.25 | 110.35 | 122.05 | 133.45 | 145.10 |
| 34 | 76.65 | 83.15 | 93.75 | 104.70 | 116.45 | 128.85 | 141.00 | 153.35 |
| 35 | 80.55 | 87.40 | 98.65 | 110.20 | 122.70 | 135.85 | 148.70 | 161.80 |
| 36 | 84.55 | 91.80 | 103.70 | 115.95 | 129.15 | 143.05 | 156.65 | 170.50 |

Note—We can furnish these discs and circles up to 56 inches in diameter. Prices quoted on request.

ALOXITE CLOTH



SHEETS

In Sheets 9x11 Inches

Aloxite, the ideal abrasive, coated on cloth for general shop use. Aloxite is Hard and Extremely Tough, Cuts Fast and shows much longer life than Regular Emery Cloth.

| | | | | |
|------------------------|---------|----------|-------|--------|
| Nos. (and Grain) | 000-180 | 00-150 | 0-120 | 1/2-90 |
| Per Ream | \$30.00 | 30.00 | 30.00 | 31.20 |
| Nos. (and Grain) | 1-80 | 1 1/2-70 | 2-60 | |
| Per Ream | \$32.75 | 34.30 | 36.50 | |

480 Sheets in a Ream.

WET OR DRY FINISHING PAPER

IN SHEETS

A water-proof Sand Paper, made with a new adhesive, used in water to rub down varnish coats on automobile bodies, etc., just as pumice stone has always been used.



| | | | | |
|----------------|---------|-------|-------|-------|
| Nos. | 1/0 | 2/0 | 4/0 | 6/0 |
| Per Ream | \$25.50 | 23.00 | 19.00 | 15.50 |

One-half Ream in a Package.

STEEL WOOL

STANDARD PACKAGE



For Rubbing and Polishing in Place of Sand Paper

| | | | | | |
|---------------------------|--------|-----|-----|----------|------------|
| Nos. | 00 | 0 | 1 | 2 | 3 |
| Equal to Sand Paper. | 000 | 00 | 0 | 1/2 or 1 | 1 1/2 or 2 |
| Per Pound | \$1.00 | .70 | .60 | .50 | .40 |

One Pound in a Package; Twenty-five Packages in a Case.

HOUSEHOLD PACKAGE

| | | | |
|---------------------------|--------|------|------|
| Nos. | 00 | 0 | 1 |
| Equal to Sand Paper. | 000 | 00 | 0 |
| Per Dozen Packages. | \$1.20 | 1.20 | 1.20 |

One-half Gross in a Case; One Dozen Packages in a Carton.

Steel Wool does not scratch, clog or gum up, adapts itself to all shapes and reaches every spot and crevice. It does the work in one-third the time.

LEAD WOOL

In Rope Form

The best possible calking material for cast iron pipe. Where cement and cast lead joints fail, Lead Wool will reduce the chance of leaky joints to a minimum.

Lead Wool is inserted rope by rope and each blow on the wool expands it into the pipe and drives back the jute.

Per Pound
1/2 in. Rope \$0.30
100 Pounds, About 250 Feet on a Roll.

ASBESTOS PAPER



Made from pure asbestos fibre; fire proof, flexible, proof against decay; non-heat conductor, deadening felt and building paper. For covering heaters and heater pipes, steam and hot water pipes, etc.

36 in. Wide
1/2 in. Thick \$0.15
300 Square Feet in a Roll.

ASBESTOS WICK PACKING



A pure, long-fibred, hard twisted asbestos wick. Can be separated and packed in any desired shape, around small steam and other valve stems.

Per Pound
1 Pound Balls \$0.70

FLAKE GRAPHITE

DIXON'S TICONDEROGA



Has many valuable applications as a lubricant for cylinders, valves and bearings, either alone or mixed with oils and greases.

Also indispensable to engineers and mechanics for coating gaskets and packing for pipe fittings and the like.

Prepared in the coarser (or No. 1) flake, and the finer (or No. 2) size. Each has special advantages.

Note—If the Finely Ground (No. 2) Graphite is desired, so Specify it in the Order. Price is the same for Nos. 1 and 2.

Per Can
No. 632—1 Lb. Paper Cans, 36 in Case \$0.45
No. 633—5 Lb. Tin Cans, 10 in Case 2.00
No. 634—10 Lb. Tin Cans, 5 in Case 3.75

CARPENTERS CHALK



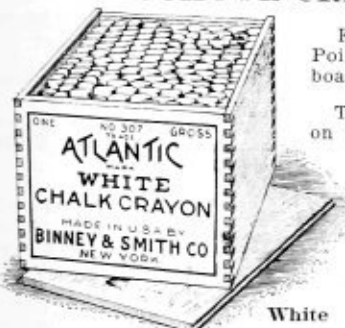
For making Chalk Lines, Patterns, etc.

Half Round Cakes

| | Per Gross |
|---------------|-----------|
| No. 130—White | \$2.30 |
| No. 131—Red | 2.80 |
| No. 132—Blue | 2.80 |

Weight Per Box 5 Pounds.
One-half Gross in a Box.

SCHOOL CRAYONS

Free from Grit — Soft
Points—will not scratch the
boards.These are the finest chalks
on the market.

White

| | Per Gross |
|--|-----------|
| No. 307—Atlantic, Weight Per Gross 2½ Lbs. | \$0.50 |
| One Gross in a Box. | |

RAILROAD CRAYONS

More conveniently handled and more economical than
Lump Chalk.

| | 4x1 in. Sticks | Per Gross |
|-------|----------------|-----------|
| White | | \$2.60 |
| Red | | 3.00 |
| Blue | | 3.00 |

Weight Per Box 11 Pounds.
One Gross in a Box.

METAL WORKERS CRAYON



Nanthelela, Flat

| | Per Gross |
|-----------------|-----------|
| 5x 1½ x 1/8 in. | \$3.00 |
| 5x 1¼ x 7/8 in. | 6.00 |
| Round | |
| 5x 3/4 in. | 6.00 |
| Square | |
| 5x 1¼ in. | 3.00 |
| 5x 1½ in. | 6.00 |

LUMBER CRAYONS

For marking steel and iron, concrete and stone and
lumber in all stages of preparation.Hexagon Shape, 4½ in. Long, ½ in. Diameter Per Dozen
No. 361—Black, Medium Soft, Japanned Finish.....\$0.70Hexagon Shape, 4½ in. Long, ½ in. Diameter Per Dozen
No. 365—Black, Soft, Paper Covered.....\$0.70Hexagon Shape, 4½ in. Long, ½ in. Diameter Per Dozen
No. 496—Yellow Color, Paper Covered.....\$1.25
No. 520—Red Color, Paper Covered.....1.25
No. 521—Blue Color, Paper Covered.....1.25
No. 522—Green Color, Paper Covered.....1.25
No. 523—White Color, Paper Covered.....1.25
One Dozen in a Box.

CARPENTERS PENCILS

No. 410—Dixon's, 7 in. Oval, Polished Cedar Finish,
Blind Stamped\$6.30
One Dozen in a Package, One-half Gross in a Box.No. 538H—Framers' 7 in., Beveled, Hard Lead,
Maroon Finish, Gold Stamped.....\$ 8.90
No. 539H—Framers' 9 in., Beveled, Hard Lead,
Maroon Finish, Gold Stamped.....10.50
One Dozen in a Package, One-half Gross in a Box.No. 997H—Red and Black, 7 in., Hard Lead, Black
Bevel, Bright Red Finish, Silver Stamped.....\$ 8.90
No. 998H—Red and Black, 9 in., Hard Lead, Black
Bevel, Bright Red Finish, Silver Stamped.....10.50
One Dozen in a Package, One-half Gross in a Box.

LEAD PENCILS

Yellow Finish Per Gross
No. 1386—Ticonderoga, Nos. 1, 2 or 2½ Lead, Hex-
agon Cornerless, Red Rubber Tip, Gilt Ferrule,
a Standard Office Pencil of Superior Merit and
Pleasing to the Fingers.....\$8.20
One Dozen in a Box, One-half Gross in a Carton.

DRAWING PENCILS

Yellow Finish Per Dozen
No. 170HB—Eldorado, Hexagon, Cornerless, Stamped
with Gold, for Draftsmen, Artists, Engineers,
etc., Red Rubber Tipped.....\$1.25
One Dozen in a Box.

CHALK LINES

White Cotton
1/8 in. Thick.

| | | |
|--------------------------|--------|------------------|
| Nos. | 55 | 55 |
| Balls, Feet | 50 | 100 |
| Per Dozen | \$1.00 | 2.00 |
| No. 66—1 Lb. Hanks | | Per Pound \$1.10 |

MASON LINES

White Cotton
3/8 in. Thick.

| | | | |
|--------------------------|--------|------|-------|
| Balls, Yards | 35 | 70 | 100 |
| Per Dozen | \$5.00 | 7.50 | 10.00 |
| Yellow 3/8 in. Thick. | | | |
| Balls, Yards | 35 | 70 | 100 |
| Per Dozen | \$5.00 | 7.50 | 10.00 |

BRAIDED LINE

| | | |
|-----------|--|--|
| No. 3 | | |
| No. 3 1/2 | | |
| No. 4 | | |
| No. 4 1/2 | | |

| | | | | |
|--|--------|-------|------|-------|
| Braided Cotton in 16 Yard Hanks, Connected | | | | |
| Size | 3 | 3 1/2 | 4 | 4 1/2 |
| Per Dozen Hanks | \$6.30 | 6.30 | 6.80 | 7.90 |
| Twelve Hanks, Connected, in a Box. | | | | |

SHAFTING LINES
SEAGRASS

For lining up shafting and other work where a fine strong line is required.

| | |
|--------------------------------------|-----------|
| 25 Foot Hanks, Connected | Per Dozen |
| No. 2—One Dozen Hanks in a Box | \$4.80 |

AWNING CORD



| | |
|-------------------------|-----------|
| White Cotton, Twisted | Per Pound |
| 3/16 in. Diameter | \$0.75 |
| 500 Feet on a Reel. | |

SASH CORD

Note—For Sash Cord Refer to Builders' Hardware Section of This Catalog.

CHALK LINE REELS



| | |
|--|-----------|
| Hardwood, Polished | Per Dozen |
| No. 12—Length 2 3/4 in., Diameter 2 in. | \$1.20 |
| Three Dozen in a Box. | |

TWINES



1/2 Lb. Ball.



1/2 Lb. in Carton.

"TRYSUM" COTTON

White Glazed

| | |
|-------------------------------------|--------|
| 1/2 Lb. Balls, 3 Lbs. in a Package. | |
| Nos. | 12 |
| Per Pound | \$0.80 |
| 1/2 Lb. Cartons. | |
| No. | 18 |
| Per Pound | \$0.80 |

REGULAR COTTON

| | |
|---|--------|
| White, in 1/2 Lb. Balls, 5 Lbs. in a Bag. | |
| Per Pound | \$0.60 |

HEMP TWINE

| | |
|-------------------------------------|-----------|
| 1/2 Lb. Balls, 3 Lbs. in a Package. | Per Pound |
| No. 18 | \$0.50 |

SPRING TWINE

Hemp

| | |
|-------------------------------|-----------|
| In Balls Weighing About 1 Lb. | Per Pound |
| No. 6 | \$0.35 |
| In 1/2 Lb. Balls. | Per Pound |
| No. 4 1/2 | \$0.40 |

WOOL TWINE

| | |
|-------------------------------|-----------|
| In Balls Weighing About 1 Lb. | Per Pound |
| No. 000 | \$0.32 |

JUTE TWINE

| | |
|-----------------|-----------|
| In 1 Lb. Balls. | Per Pound |
| 4 Ply | \$0.38 |

TWINE HOLDERS

HANGING TYPE



Medium

| | |
|--------------------------|-----------|
| No. 13—Cast Iron, Copper | Per Dozen |
| Bronzed | \$6.00 |

Large

| | |
|---------------------------|-----------|
| No. 113—Cast Iron, Copper | Per Dozen |
| Bronzed | \$7.50 |

BEE HIVE PATTERN



Japanned.

| | |
|--|-----------|
| No. 31—Size 4 1/2 x 4 in. Twine Chamber, Weight Each | Per Dozen |
| 2 3/4 Lbs. | \$9.00 |
| One in a Box. | |

HAY FORKS**THREE TINE**

Solid Steel Shanks, Oval Polished Steel Tines, Gold Bronze Head, Ferrule and Cap

**First Quality**

Strap Ferrule, Polished and Waxed Bent Handles, 12 in. Tines.

| | | |
|-----------------------------|---------|-------|
| Nos. | SB34½ | SB35 |
| Length Handle, Feet. | 4½ | 5 |
| Weight Per Dozen, Lbs. | 32 | 35 |
| Per Dozen | \$19.00 | 20.00 |

One Dozen in a Bundle, Tines Covered.

Second Quality

Strap Ferrule, Bent Handle, 11¾ in. Tines.

| | | |
|-----------------------------|---------|-------|
| Nos. | YSE34½ | YSE35 |
| Length Handle, Feet. | 4½ | 5 |
| Weight Per Dozen, Lbs. | 30 | 32 |
| Per Dozen | \$17.25 | 18.00 |

One Dozen in a Bundle.

MANURE FORKS

Solid Steel Shanks, Oval Polished Steel Tines, Gold Bronze Head, Ferrule and Cap, Polished and Waxed Handles

**LONG HANDLE, FIRST QUALITY
FOUR TINE**

Strap Ferrule, Bent Handles, 13 in. Tines

| | |
|---|---------|
| No. S44½—Length of Handle 4½ ft., Weight Per Dozen 41 Lbs. | \$23.25 |
|---|---------|

FIVE TINE

Strap Ferrule, Bent Handle, 13 in. Tines

| | |
|---|---------|
| No. S54½—Length of Handle 4½ ft., Weight Per Dozen 45 Lbs. | \$26.50 |
|---|---------|

SIX TINE

Strap Ferrule, Bent Handle, 13 in. Tines

| | |
|---|---------|
| No. S64½—Length of Handle 4½ ft., Weight Per Dozen 48 Lbs. | \$29.25 |
|---|---------|

D HANDLE, FIRST QUALITY**FOUR TINE**

Strap Ferrule, Steel D Handle, 13 in. Tines

| | |
|---|---------|
| No. S4D—30 in. Bent Handle, Weight Per Dozen 38 Lbs. | \$23.00 |
|---|---------|

FIVE TINE

Strap Ferrules, Steel D Handle, 13 in. Tines

| | |
|---|---------|
| No. S5D—30 in. Bent Handle, Weight Per Dozen 40 Lbs. | \$26.00 |
|---|---------|

SIX TINES

Strap Ferrule, Steel D Handle, 13 in. Tines

| | |
|---|---------|
| No. S6D—30 in. Bent Handle, Weight Per Dozen 45 Lbs. | \$29.00 |
|---|---------|

All Above, One-half Dozen in a Bundle, Tines Covered.

SPADING FORKS**FOUR TINES, STEEL D HANDLE**

Light Pattern, 11 in. Angular (Diamond Back) Tines

First Quality

Per Dozen

| | |
|---|---------|
| No. SALD—Strap Ferrule, Gold Bronze Head, Ferrule and Cap, Polished Tines, Bent Steel D Handle, Weight Per Dozen 50 Lbs. | \$22.00 |
|---|---------|

Second Quality

| | |
|---|-------|
| No. YSALD—Strap Ferrule, Black and Bronze Finish, Tumbled Tines, Bent Steel D Handle, Weight Per Dozen 50 Lbs. | 20.00 |
|---|-------|

Third Quality

| | |
|--|-------|
| No. ZSALD—Strap Ferrule, Black Finish, Tumbled Tines, Bent Steel D Handle, Weight Per Dozen About 46 Lbs. | 16.10 |
|--|-------|

All Above, One-half Dozen in a Bundle.

**STONE OR BALLAST FORKS
UNION****Strap Ferrule**

Solid Steel Shank, Black Finish, Polished and Waxed Steel D Handle, Square Tines, 13½ in. Long.

| | | |
|-----------------------------------|---------|-------|
| Nos. | B8 | B10 |
| No. of Tines. | 8 | 10 |
| Width, Inches. | 10½ | 13 |
| Space Between Tines, Inches. | 1½ | 1½ |
| Weight Per Dozen, Lbs. | 74 | 84 |
| Per Dozen | \$38.20 | 46.10 |

One-half Dozen in a Bundle.

**COAL FORKS
UNION****Strap Ferrule**

Regular Pattern, Solid Steel Shank, Black Finish, 16 in. Diamond Tines, Polished and Waxed Steel D Handle.

| | | |
|-----------------------------------|---------|-------|
| Nos. | C110 | C112 |
| No. of Tines. | 10 | 12 |
| Width, Inches. | 11½ | 13 |
| Space Between Tines, Inches. | ¾ | ¾ |
| Weight Per Dozen, Lbs. | 84 | 95 |
| Per Dozen | \$46.10 | 52.50 |

One-half Dozen in a Bundle.

**COKE FORKS
UNION****Strap Ferrule**

Solid Steel Shank, Black Finish, 17 in. Diamond Tines, Polished and Waxed Steel D Handle.

| | | | | |
|--------------------------------|---------|-------|-------|-------|
| Nos. | K10 | K12 | K14 | K116 |
| No. of Tines. | 10 | 12 | 14 | 16 |
| Width, Inches. | 14 | 18 | 20½ | 19½ |
| Space Bet. Tines, Inches. | 1¼ | 1¼ | 1¼ | 1 |
| Weight Per Dozen, Lbs. | 88 | 100 | 110 | 120 |
| Per Dozen | \$44.50 | 51.00 | 58.80 | 70.00 |

One-half Dozen in a Bundle.

ENSILAGE FORKS

UNION



Strap Ferrule

Solid Steel Shank, Black Finish, Half Polished, 16 in. Oval Tines.

No. E8—Eight Tines, Raised Shoulders, Polished and Waxed Steel D Handle, Weight Per Dozen 61 Lbs. \$36.00
One-half Dozen in a Bundle.

POTATO HOOKS

UNION

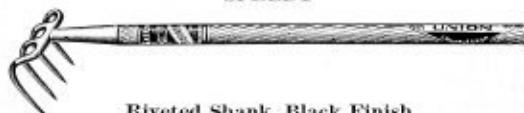


Gooseneck Shank

No. 4DGN—Four Tine, Diamond Back, Solid Steel Shank, Bronze Finish, 4½ ft. Straight Handle, Weight Per Dozen 28 Lbs. \$15.00
One Dozen in a Bundle.

CULTIVATORS

SPEEDY

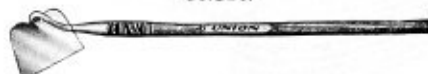


Riveted Shank, Black Finish

No. 4SC—Four Tine, Width Across Tines 5 in., Digs 5 in. Deep, Weight Per Dozen 22 Lbs. \$12.00
One Dozen in a Bundle.

LADIES HOES

UNION



Solid Shank, Full Polished Steel Blade

No. L5—5 in. Blade, Bronze Finish, 4 ft. Selected Handle, Weight Per Dozen 18 Lbs. \$10.60
One Dozen in a Bundle, Blades Covered.

FIELD AND GARDEN HOES

UNION



Bronze Finish, Solid Socket, Full Polished Solid Steel Blade, First Quality

No. 8GA—Assorted Blades 6, 7 and 8 in., 4½ ft. Polished and Waxed Handle, Weight Per Dozen 27 Lbs. \$15.00
One Dozen in a Bundle, Covered.

RIVETED HOES

UNION



Riveted Sheet Steel Blade, Iron Shanks, Black Finish

No. R7—7 in. Blade, 3 Rivets, 4½ ft. Handle, Weight Per Dozen 24 Lbs. \$7.80
One Dozen in a Bundle, Blades Not Covered.

MORTAR HOES

UNION



No. MR10.

Bronze Finish, Full Polished Steel Blades

Blades 10 in. Wide x 6 in. Deep, 5½ ft. Polished and Waxed Handles.

No. MR10—Solid Shank \$18.50
No. 5MR10—Solid Socket 20.00

Weight Per Dozen 52 Pounds.

One Dozen in a Bundle, Blades Covered.

MORTAR-MIXER HOES

UNION



Plain Ferrule, Full Polished Steel Blade

Solid Steel Shank, Bronze Finish, Polished and Waxed Handle, Blades 6 in. Deep.

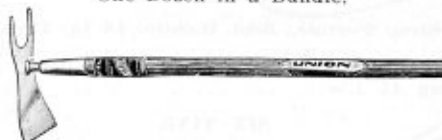
No. MM10—10 in. Blade, with Two Holes, 5½ ft. Handle, Weight Per Dozen 50 Lbs. \$20.00

One Dozen in a Bundle, Blades Covered.

WEEDING HOES

Bright Steel Blade, Black Finish, Sharp Point, Iron Shank

No. SPW—4½ ft. Good Quality Handle, Weight Per Dozen About 22 Lbs. \$6.40
One Dozen in a Bundle.



Bright Steel Blades, Riveted Iron Shank, Black Finish

No. 2PW—Two Prongs, 4½ ft. Handle, Weight Per Dozen 23 Lbs. \$7.20
One Dozen in a Bundle.



Bright Steel Blade, Steel Shank, Black Finish

No. 4PSW—Four Prongs, 4½ ft. Handle, Weight Per Dozen 24 Lbs. \$14.40
One Dozen in a Bundle.

SCUFFLE HOES

Braced Malleable Iron Shank, Black Finish, Bright Steel Blade

No. GSH—2½ x 8 in. Blade, 6 ft. Handle, Weight Per Dozen 35 Lbs. \$15.50
One Dozen in a Bundle.

GRAPE HOES



Although primarily intended for use in vineyards, these Hoes are extensively used for cultivating gardens and many other uses.

Black Finish, Square Eye, Handled

Per Dozen

- No. SGH—Solid Crucible Cast Steel Head, 48 in. Selected Handle, Weight Per Dozen 35 Lbs. . . . \$30.00
One Dozen in a Crate.

TURF EDGERS



Solid Socket, Polished Steel Blade, Gold Bronzed

Per Dozen

- No. STE—4 ft. Selected Handle, Weight Per Dozen 30 Lbs. . . . \$16.20
One Dozen in a Bundle, Blades Covered.

GARDEN TROWELS



One Piece Solid Stamped Steel

Per Dozen

- No. 01—5 in. Blade, 20 Gauge Plain Steel, Nicely Finished Natural Wood Handle, Weight Per Dozen 2 1/2 Lbs. . . . \$1.20
One Dozen in a Box.



Extra Heavy Riveted Shank

Per Dozen

- No. 12—6 in. Blade, Heavy Malleable Shank, Steel Blade Half Polished and Finished in Blue Enamel, Weight Per Dozen 6 Lbs. . . . \$3.00
One Dozen in a Box.



Heavy Transplanting

Per Dozen

- No. 020—5 in. Blade, Extra Heavy Steel Finished in Red Enamel, Fine Polished Natural Wood Handle, Weight Per Dozen 3 1/2 Lbs. . . . \$2.40
One Dozen in a Box.



All Steel

Per Dozen

- No. 103—11 1/2 in. Long Over All, One Piece 19 Gauge Steel, Cannot Bend, Attractively Finished in Green Enamel with Polished Tip, Weight Per Dozen 4 1/2 Lbs. . . . \$1.20
One Dozen in a Box.

GARDEN TROWELS



American Beauty

Handles are extra long, hand turned and finely finished. Extra Heavy Steel.

Per Dozen

- No. 100—14 1/2 in. Long Over All, Half of Blade Polished, Rest Finished in Bright Red Enamel, Weight Per Dozen 7 Lbs. . . . \$5.00
One Dozen in a Box.

GARDEN FORKS



Per Dozen

- No. 1—Medium Weight, Malleable Iron, Finished in Red Enamel with Polished Natural Wood Handle, Weight Per Dozen 3 1/2 Lbs. . . . \$2.50
One Dozen in a Box.

WEEDING HOOKS

EXCELSIOR

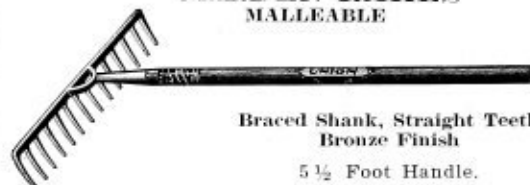


Per Dozen

- No. WH—Five Prong, Malleable Iron Tinned, Black Enamelled Handle, Weight Per Dozen 3 Lbs. . . . \$2.00
One Dozen in a Box.

GARDEN RAKES

MALLEABLE



Braced Shank, Straight Teeth
Bronze Finish

5 1/2 Foot Handle.

| Nos. | MB10 | MB12 | MB14 | MB16 |
|--------------------|--------|------|------|------|
| No. of Teeth | 10 | 12 | 14 | 16 |
| Weight Dozen, Lbs. | 26 | 28 | 31 | 35 |
| Per Dozen | \$8.25 | 8.50 | 9.00 | 9.60 |

STEEL



One-Piece Solid Steel Forged Head, Hammer Drawn Straight Teeth, Bronze Finish, 5 1/2 ft. Polished Handle.

Single Shank

| Nos. | S14 | S16 |
|------------------------|---------|-------|
| No. of Teeth | 14 | 16 |
| Weight Per Dozen, Lbs. | 35 | 39 |
| Per Dozen | \$15.00 | 15.85 |



Forged from One-Piece of Bar Steel. Teeth Hammer Drawn. Bronze Finish. 5 1/2 ft. Handle.

Single Shank, Curved Teeth

| Nos. | SC12 | SC14 |
|------------------------|---------|-------|
| No. of Teeth | 12 | 14 |
| Weight Per Dozen, Lbs. | 30 | 34 |
| Per Dozen | \$13.50 | 15.00 |

All Above, One Dozen in a Bundle.

ROAD RAKES

UNION STEEL



Extra Heavy

Forged Steel, Single Shank, Straight Teeth, Black Finish.

Per Dozen

No. R16—16 Teeth, Length of Handle 6 ft., Weight

Per Dozen 57 Lbs. \$21.00

One-half Dozen in a Bundle.

ASPHALT OR TAR RAKES

UNION STEEL



Square Straight Shank

Forged Steel, Single Shank, Straight Teeth, Black Finish, Strap Ferrule.

Per Dozen

No. A14—14 Teeth, 18 in. Shank, Length of Handle

5 ft., Weight Per Dozen 66 Lbs. \$30.00

One-half Dozen in a Bundle, Heads Not Covered.

LAWN RAKES

OLE OLSON



The teeth are set by a patented process which absolutely prevents them from dropping out.

Well Seasoned Hardwood Head and Teeth, Oil Finished

Per Dozen

No. 212—26 Teeth, 23 in. Curved Head, Malleable

Iron Brace, 5 1/2 ft. Selected Handle, Neat, Strong

and Durable, Weight Per Dozen 34 Lbs. \$10.50

One Dozen in a Crate.

AUTO CLEANER



Selected Hickory, Malleable Iron Socket, Self-Cleaning, Oil Finish and Varnished, Japanned Socket

Nos. 205-22 205-26

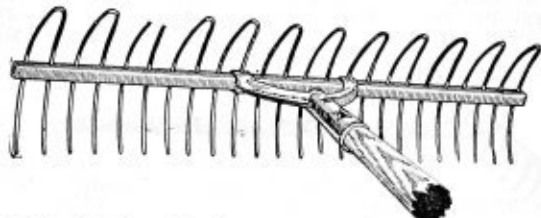
Number of Teeth. 22 26

Weight Per Dozen, Lbs. 67 72

Per Dozen \$16.00 24.00

One-half Dozen in a Crate.

GIBBS WIRE



Malleable Iron Bracket cast over Square Head, Teeth pass through Malleable Bracket as well as through Steel Rake Head.

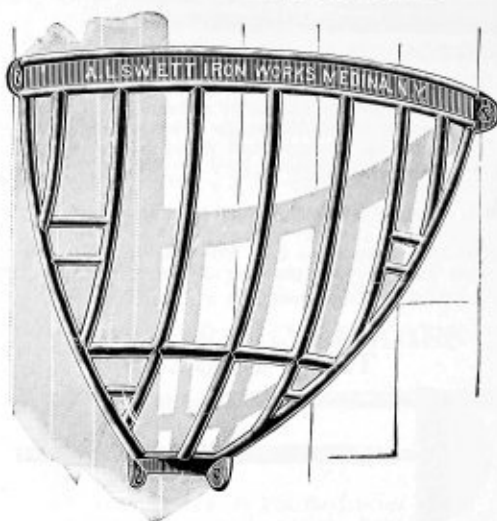
No. 9 Steel Spring Wire Teeth Per Dozen

No. 215—24 Teeth, 6 ft. Nicely Finished White Ash

Handle, Weight Per Dozen 32 Lbs. \$10.00

One-half Dozen in a Bundle.

CORNER HAY RACKS



Cast Iron

Each

No. 0—Projects 1 ft. 10 in. from Corner, Height 2

ft. 3 in., Average Weight Each 25 Lbs. \$6.25

CORNER MANGERS OR FEED BOXES



Cast Iron, Japanned, with Flat Food Guard

Each

No. 1—13x13x8 in., Average Weight Each 17 Lbs. \$3.75

BULL RINGS

Extra Heavy, Polished
Copper with Screw-
driver

Nos. 21 22

Size Wire, In. 1/8 3/8

Diameter, In. 2 1/2 3

Each \$0.38 .42

Ten in a Box.

CATTLE LEADERS

Bright, Malleable Iron, Brass
Wire Spring

Nos. 51

Width Over Jaws, In. 2 1/4

Length, Inches. 5

Weight Box, Lbs. 2 1/2

Each \$0.23

Ten in a Box.

HARNESS SNAPS

BULL DOG CHAIN



XC Plate

Per Dozen

No. 583B—5 1/4 in. Long, Weight Per Dozen 4 1/2 Lbs. \$2.92
One Dozen in a Box.

"NEVERBREAK" BOLT



Open Eye, XC Plate

Per Gross

No. 433—Chain, 3/8 in. Eye, 3 3/8 in. Long Over All.
Weight Per Gross 14 1/2 Lbs. \$16.24
No. 434—Trace, 1/2 in. Eye, 4 1/4 in. Long Over All.
Weight Per Gross 31 Lbs. 23.50
One-quarter Gross in a Box.

SAMSON OPEN EYE BOLT

Guaranteed to Close without Breaking.

XC Plate

Per Dozen

No. 450B—5/8 in. Eye, Length Over All 5 1/2 in. \$6.24
Two Dozen in a Box.

SWIVEL BOLT



XC Plate, Round Swivel Eye

| | | |
|-------------------|---------|-------|
| Nos. | 423B | 423C |
| Eye, Inches | 5/8 | 3/4 |
| Per Gross | \$15.80 | 18.00 |

One-half Gross in a Box.

ROUND EYE BOLT



XC Plate, Round Eye

| | | | |
|-------------------|--------|------|-------|
| Nos. | 436AA | 436A | 436B |
| Eye, Inches | 3/8 | 1/2 | 5/8 |
| Per Gross | \$9.60 | 9.60 | 10.00 |

One-half Gross in a Box.

OLD TIME



Bronzed

Heavy Pattern, Aluminum Steel Spring

| | | | | | |
|--------------------------|--------|-------|-------|-------|-------|
| Nos. | 428E | 428G | 428J | 428L | 428N |
| Loop, Inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Av. Wt. Gross, Lbs. | 12 | 17 | 27 | 32 | 43 |
| Gross in Box | 1/2 | 1/2 | 3/4 | 1/4 | 1/4 |
| Per Gross | \$4.80 | 8.40 | 11.00 | 14.00 | 16.00 |

CLEVELAND



XC Plate, Round Eye

Flat Steel Spring.

Per Gross

No. 422A—1/2 in. Eye, \$7.20
One-half Gross in a Box.

SNAPS

Bronzed, Oval Loop

Per Gross

No. 427A—Size 1/2 in. \$3.60
One Gross in a Box.



Cleveland Bag

Round Eye, Aluminum Steel Spring.

Per Gross

No. 277—XC Plate, 3/8 in. \$4.80
One Gross in a Box.



Round Eye

Flat Steel Spring.

Per Gross

No. 431AA—XC Plate, 3/8 in. Eye. \$3.60
No. 431AA—Bronzed, 3/8 in. Eye. 4.80
One Gross in a Box.

BUCKLES

SHOE

XC Plate, Imitation Roller

Per Gross



No. 28C—3/4 in. \$3.60
No. 28E—1 in. 5.20
One Gross in a Box.

SKATE

XC Plate, with Roller

Per Gross

No. 420A—1/2 in. \$2.80
No. 420C—3/4 in. 4.20
No. 420E—7/8 in. 6.00
One Gross in a Box.



HARNESS

Black Japanned, Malleable Iron, with Roller

Per Gross



No. 50C—3/4 in., 1 Gross in Box. \$3.30
No. 50E—1 in., 1/2 Gross in Box. 4.60
No. 50G—1 1/4 in., 1/2 Gross in Box. 6.40

FERRULES

SEAMLESS BRASS



| | | | | | | |
|------------------------|--------|-------|-------|-------|-----|-------|
| Nos. | 00 | 0 | 1 | 2 | 3 | 4 |
| Diameter, inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 |
| Per Gross | \$1.56 | 1.30 | 1.10 | .88 | .75 | .70 |

| | | | | | | |
|------------------------|--------|-----|-------|-------|-------|-------|
| Nos. | 5 | 6 | 7 | 8 | 9 | 10 |
| Diameter, inches | 3/8 | 7/8 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 |
| Per Gross | \$0.65 | .55 | .45 | .41 | .37 | .33 |

One Gross in a Box.

MALLEABLE IRON



| | | | | | |
|-----------------------|--------|-----|-----|-------|-------|
| Diameter, Inches | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Per Pound | \$0.40 | .30 | .25 | .20 | .20 |

10 Pounds in a Box.

IMPLEMENT HANDLES

STRAIGHT HAY FORK



X Quality, Plain, Chucked and Bored, Waxed and Polished
 Length, Feet 5 6
 Weight Per Dozen, Lbs. 20 24
 Per Dozen \$1.20 6.70

BENT HAY FORK



X Quality, Plain, Chucked and Bored, Waxed and Polished
 Length 5 Feet—Weight Per Dozen 20 Lbs. \$5.00

BENT MANURE FORK



X Quality, Plain, Chucked and Bored, Waxed and Polished
 Length 4½ Feet—Weight Per Dozen 18 Lbs. \$5.00

HOE AND RAKE



X Quality, Plain, Chucked and Bored, Waxed and Polished
 Length, Feet 4½ 6
 Weight Per Dozen, Lbs. 16 19
 Per Dozen \$3.40 6.20

PLANTER EYE HOE



X Quality, Waxed and Polished, 2 in. Diameter at Butt
 Length 4 Feet—Weight Per Dozen 20 Lbs. \$4.90

LONG BENT SHOVEL

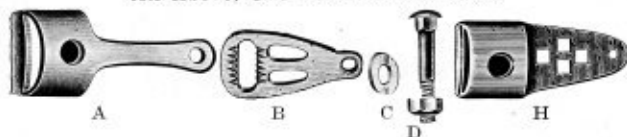


Ames Bend
 X Quality, Waxed and Polished Per Dozen
 Length 4½ Feet—Weight Per Dozen 22 Lbs. \$5.70

WOOD D SHOVEL



Ames Bend
 X Quality, Waxed and Polished Per Dozen
 Length 30 in.—Riveted D, Weight Per Dozen 20 Lbs. \$7.40
 All Above, One Dozen in a Bundle.



IMPLEMENT HANDLES

WOOD D SCOOP



X Quality, Regular Bend, Waxed and Polished.
 Length 30 in.—Riveted D, Weight Per Dozen 21 Lbs. \$7.40

WOOD D SPADING FORK



X Quality, Bent and Riveted, Chucked and Bored
 Length 30 in.—Riveted D, Weight Per Dozen 21 Lbs. \$6.90

WOOD D SPADE



X Quality, Regular Bend, Waxed and Polished
 Length 30 in.—Riveted D, Weight Per Dozen 21 Lbs. \$7.10

IRON D COKE FORK



No. 1 Quality, Strapped and Capped
 Length 30 in.—Weight Per Dozen 25 Lbs. \$10.60
 All Above, One Dozen in a Bundle.

MALLEABLE D TOPS



No. 3—Malleable Iron Head, Plain, with Hardwood
 Handle, Weight Per Dozen 7½ Lbs. \$2.70
 Open Stock.

SNATH PARTS

Nos. Per Dozen
 A—End Web, Fenn's Patent Swing Socket
 Snaths \$1.70
 B—Swing Socket Plate, for Swing Socket Snath. 1.35
 C—Lock Plate, for Swing Socket Snath. .55
 D—Lock Bolt, for Swing Socket Snath. 1.35
 H—End Web, for No. 55 Solid Plate Snath. 1.75
 I—End Web, for No. 105 Patent Loop Bush
 Snaths 2.00
 K—Loop Bolt and Nut, for All Grass Snaths. 2.00
 L—Loop Bolt and Nut, for No. 105 Patent Loop
 Bush Snath 2.15
 *N—Heel Drive Ring, for Grass and Bush
 Snaths 2.00
 O—Solid Plate Socket, for All Ring Snaths. 1.25
 R—Small Heel Wedge, for Grass Snath. .80
 S—Large Heel Wedge, for No. 100 Bush Snath. .80
 T—Grass Wrench 1.00
 U—Bush Wrench 1.00
 X—Nib Iron Wood and Collar, Complete. 4.00

*When Ordering Give Size Nos. as Follows:

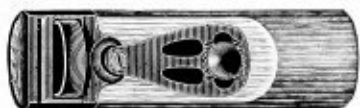
Nos. 5 6 7 7½ 8 9
 Diameter, Inches. 1½ 2 2¼ 2½ 2¾ 2⅞

SCYTHE SNATHS



Made from the highest grade Northern Second Growth Ash. Each stick is split with the grain of the wood.

REGULAR BEND



Grass

Each

No. 50—Swing Socket Loop Heel Grass Snath, Weight Per Dozen 50 Lbs. \$1.75
One-half Dozen in a Bundle.



Each

No. 100—Two Ring, Solid Plate Bush Snath, Weight Per Dozen 58 Lbs. \$2.00
One-half Dozen in a Bundle.

SCYTHES

BLOOD'S
GRASS

No. 119—Regular Heel or Clipper

Cutting Edge Polished, Balance of Scythe Black Enamelled Finish.

| Length, Inches..... | 30 | 32 | 34 |
|---------------------|---------|-------|-------|
| Per Dozen | \$24.00 | 24.00 | 24.00 |

Average Weight Per Dozen 25 Pounds.



No. 219—Wide Heel or Western Dutchman

Cutting Edge Polished, Balance of Scythe Black Enamelled Finish.

| Length, Inches | 30 | 32 | 34 |
|----------------------|---------|-------|-------|
| Per Dozen | \$24.00 | 24.00 | 24.00 |

Average Weight Per Dozen 26 Pounds.

WEED



Railroad Pattern

Cutting Edge Polished, Balance of Scythe Black Enamelled Finish.

No. 152—Sizes 24 to 28 in. Assorted, Average Per Dozen
Weight Per Dozen 26 Lbs. \$25.00

BUSH



Cutting Edge Polished, Balance of Scythe Painted Red.

Per Dozen

No. 150—Sizes 16 to 24 in. Assorted, Average Weight Per Dozen 26 Lbs. \$25.00
All Above, One-half Dozen in a Carton.

SCYTHES

ENGLISH GRASS



Solid Cast Steel Blade, Riveted Back

Per Dozen

English—Assorted Lengths, 32 and 34 in., Average Weight Per Dozen 27 Lbs. \$36.00

One-half Dozen in a Bundle.

BUSH HOOKS



Hand Forged Tool Steel Blade, Tempered and Sharpened Per Dozen

No. 2—Heavy, 34 in. Axe Handle, with Strap and Bolt, Cutting Edge Polished, Balance Bronzed, Weight Per Dozen 42 Lbs. \$35.20

One Dozen in a Case.

GRASS HOOKS

ENGLISH



Riveted Back, Through Tang

Require no grinding when dull and are easily sharpened with a scythe stone.

Per Dozen

No. 2G—Forged from Crucible Cast Steel, 11 in. Blade, Weight Per Dozen 11 Lbs. \$ 9.50

No. 3G—Forged from Crucible Cast Steel, 12 in. Blade, Weight Per Dozen 12 Lbs. 10.50

One Dozen in a Carton.

GERMAN



Per Dozen

No. 1G—16 in., Hammered Blued Steel Blade, Turned Back, Plain Wood Handle, Weight Per Dozen 6 Lbs. \$6.00

One-half Dozen in a Bundle.

GRASS HOOKS

VILLAGE BLACKSMITH



Offset Handle

Per Dozen

- No. 3VB—Tempered, Ground and Whetted, Forged Cutlery Steel Blade, Oil Finished Maple Handle, with Patented One-piece Offset Shank, Weight Per Dozen 10 Lbs. \$8.00
One Dozen in a Box.

BLUE RIBBON



Per Dozen

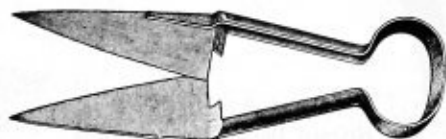
- No. 400-12—Tempered Steel Blade, Highly Polished, Blue Enamelled Shank, Beaded Black Enamelled Handle Prevents Slipping, Weight Per Dozen 9 Lbs. \$8.00
One Dozen in a Carton.

GRASS SHEARS



Per Dozen

- No. V52—6 in. Blade, Made of Cutlery Steel, Carefully Tempered and Set, Ground Perfectly, Polished Handles, Green Enamelled Bow, Polished Edges, Weight Per Dozen 10 Lbs. \$8.40
One-half Dozen in a Box.



Per Dozen

- No. R4—Good Quality Steel, Natural Finish, 6 in. Blade, Weight Per Dozen 8½ Lbs. \$6.00
One-half Dozen in a Box.

SHEEP SHEARS



Per Dozen

- No. 057E—True Vermonter, 6 in. Best Forged Cutlery Steel Blades, Bent, Full Polished, Polished Single Bows, Beveled Blades, Weight Per Dozen 12 Lbs. \$14.40
One-half Dozen in a Box.

HORSE AND MULE SHEARS

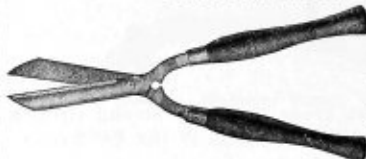


Per Dozen

- No. 5½—Curved Blades, Length Over All 9½ in., Cast Steel Blades, Full Polished, Weight Per Dozen 7 Lbs. \$7.00
One-half Dozen in a Box.

HEDGE SHEARS

DISSTON LADIES PATTERN



A light graceful tool especially designed for ladies' use and light work. Blades are hollow ground causing them to close on the cutting edge.

- Disston Steel Blades, Full Polished Per Pair
No. 1LP—6½ in. Blade, Black Enamelled Hardwood Handle, Steel Ferrules, Weight Per Pair 1½ Lbs. \$1.75
One Pair in a Package.

DISSTON REGULAR

No spring tension—a bolt that fits into a threaded hole in the blade is tightened until proper tension is received, then locked in place by a locknut.



Tang extends through the handles and is riveted. Blades are hollow ground and notched.

- | Disston Steel Blades, Black Finish, Black Enamelled Handle | | |
|--|--------|------|
| Nos. | 30-8 | 30-9 |
| Weight Per Pair, Lbs. | 2¾ | 3½ |
| Per Pair | \$2.85 | 3.00 |
| | | 3.25 |
- One Pair in a Package.

PRUNING SHEARS

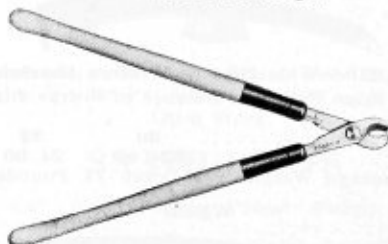
DISSTON



New tension and positive adjustment—a bolt slips through the first blade and is threaded into the second blade. By a patented feature permanent tension adjustable to any desired degree is obtained.

Heavy Disston Steel Blades, Polished Hardwood Handles, Heavy Ferrules Per Pair

- No. 1—Length Over All 27½ in., 20 in. Handles, Weight Per Pair 3¼ Lbs. \$3.00
One Pair in a Package.



Both Jaws Cutting Jaws and Both Jaws Curved

- Per Pair
No. 3—Length Over All 26 in., Otherwise Same as No. 1, Weight Per Pair 3½ Lbs. \$2.75
One Pair in a Package.

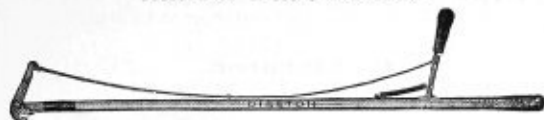
CLYDE



Solid Steel Blade and Hook, 20 in. Natural Finished Ash Handles, Black Japanned Malleable Ferrules.

- Per Pair
No. 5406—Positive Shear Cut, Weight Per Dozen 45 Lbs. \$2.25
One Dozen in a Box.

TREE PRUNERS



Hook and Blade of Solid Steel of special tensile strength so as to hold a keen cutting edge. Blade 2 3/4 in. long, convex shaped with deep bevel, attached to hook with a 5/8 in. bolt. Hook and blade accurately ground, 7 in. arm extends from cutting edge (all one piece) and is connected with lever by a 3/8 in. wire, 12 in. steel lever with wood handle, 5/8 in. coil spring 6 in. long returns lever to position.

Light Weight, Tough, Strong Wood Pole, 1/4 in. Square, Rounded Edges, Varnished

| | | |
|------------------------|---------|-------|
| Length, Feet | 6 | 12 |
| Weight Per Dozen, Lbs. | 38 | 60 |
| Per Dozen | \$24.00 | 30.00 |

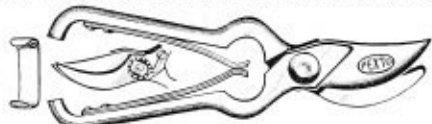
PRUNING SHEARS

PEXTO



Per Dozen

No. 50—California Pattern, 9 in. Long, Polished Tempered Tool Steel Blade Riveted to Malleable Iron Head and Handles, Dead Black Finish, Volute Spring and End Fastening Clip, Weight Per Dozen 10 1/2 Lbs. \$15.00
One Pair in a Box. One-half Dozen Pairs in a Carton.



Per Dozen

No. R85—Swiss Pattern, 8 1/2 in. Long, Full Polished, Tool Steel Blade Riveted on and Ground Convex, Double Flat Brass Springs, Regulating Ratchet Nut, Removable End Clip, Weight Per Dozen 12 3/4 Lbs. \$36.00
One Pair in a Box, One-half Dozen Pairs in a Carton.

PRUNING SHEARS

PEXTO

Blades fastened to head with screws. Equipped with brass plated coil spring and fastening clips.



Connecticut Pattern

Per Dozen

No. 0—9 in. Long, Polished Steel Blade, Black Japanned Iron Handles, Weight Per Dozen 9 3/4 Lbs. \$8.50

WISS



Per Dozen

No. 109—Length 9 in., Best Cutlery Steel Blade, Forged Entirely of Steel, All Parts Milled and Interchangeable, with Castellated Nut and Catch to Retain Close Adjustment, Weight Per Dozen 13 Lbs. \$46.00

DISSTON

With Patent Lock Nut Tension

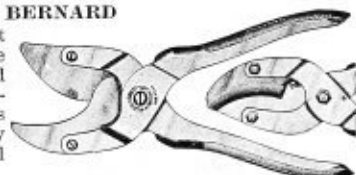


Forged from Disston-Made Steel with Hardened and Tempered Sharp Cutting Edges. Full Hollow Handles with Spring Hook Catch at End. Per Dozen

No. 150—Length Over All 8 1/2 in., Length of Blade 2 1/2 in., Volute Spring, Weight Per Dozen 8 1/4 Lbs. \$37.00

BERNARD

Auxiliary equipment consists of a positive spring action controlled by a simple locking device. Cutting blades open up sufficiently wide for all practical purposes.



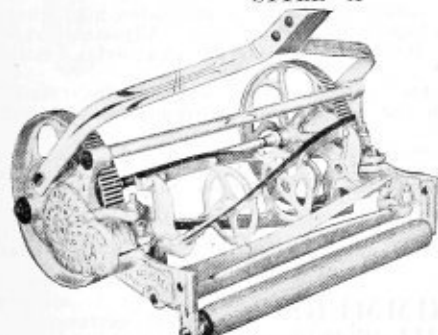
Per Dozen

No. 8—"Trimmer", Length 8 in., Wt. Dozen 8 Lbs. \$12.00
All Above, One-half Dozen Pairs in a Box.

LAWN MOWERS

PHILADELPHIA

STYLE "A"



Style "A", Plain Bearings

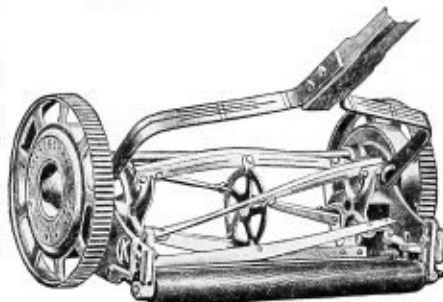
10 in. Drive Wheels, 6 1/2 in. Cylinder, 4 Revolving Blades, Train of Three Gears on One Side, Double Ratchet, Finished in Silver and Gold. Neatly Striped.

| | | | | |
|-------------------------|---------|-------|-------|-------|
| Width of Cut, Inches... | 15 | 17 | 19 | 21 |
| Weight Each, Lbs. | 39 | 42 | 44 | 46 |
| Each | \$30.00 | 34.00 | 38.00 | 42.00 |

All steel construction and a front axle and train of gears on one side only, but driving from both wheels by means of a double ratchet. Bearings bored for extreme accuracy, 1 1/8 in. diameter and 1 1/4 and 2 in. long. Has self-oiling cups and Vanadium crucible steel blades.

One in a Box.

STYLE "K"



Style "K", Plain Bearings

10 in. Drive Wheels, 6 1/2 in. Cylinder, 5 Revolving Blades, Single Pinion, Geared Both Sides, Painted Green with Red Cylinder.

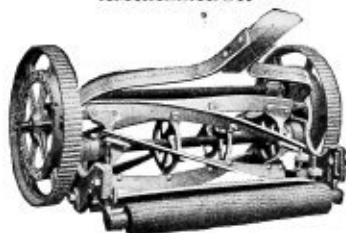
| | | | | |
|--------------------------|---------|-------|-------|-------|
| Width of Cut, Inches.... | 14 | 16 | 18 | 20 |
| Weight Each, Lbs. | 40 | 42 | 44 | 46 |
| Each | \$24.00 | 26.00 | 28.00 | 30.00 |

Bearings are 1 1/4 to 2 1/4 in. long and 1 1/8 in. diameter, bored for extreme accuracy. A good general purpose mower for hard knocks. Single pinion gears on each side.

LAWN MOWERS

COLDWELL

AMBASSADOR



Ball Bearing

Finest drop forged steel balls, case hardened. Cones made from steel shafting, turned and ground for true finish. Gears are pinion and flat sliding pawl type. Direct drive from both sides. Gears enclosed and protected.

Open type frame is light but very strong. Shouldered tie rod with nut holds frame rigid. Open style wheels with solid center, six spokes.

Specially designed lipped steel, finest quality bottom knife. Hardwood varnished handle with adjustable braces. Finished in Regal Green and Gold.

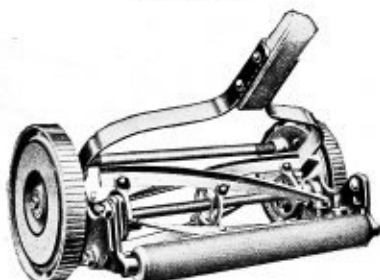
Height of cut $\frac{1}{2}$ to $1\frac{1}{2}$ in.

10 in. Drive Wheels, Five Crucible Steel Blades

| | | | |
|-----------------------------|---------|-------|-------|
| Width of Cut, Inches..... | 14 | 16 | 18 |
| Shipping Weight Each, Lbs.. | 50 | 54 | 56 |
| Each | \$16.50 | 17.75 | 18.75 |

One in a Box.

COLONIAL



Ball Bearing

Same high grade material and careful workmanship as used in the higher priced machines. Ball bearings and cones of the same grade and finish. Pinion and sliding flat pawl drive. Solid wheels.

Flat crucible steel self-sharpening bottom knife. Hardwood varnished handle. Finished in aluminum with red and gold trim.

Height of Cut $\frac{1}{2}$ to $1\frac{1}{2}$ in.

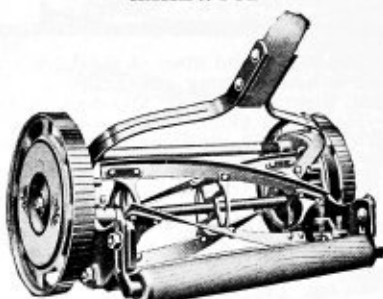
8 in. Drive Wheels, Four Crucible Steel Blades

| | | | | |
|---------------------------|---------|-------|-------|-------|
| Width of Cut, Inches.... | 12 | 14 | 16 | 18 |
| Ship'g Weight Each, Lbs.. | 31 | 38 | 40 | 42 |
| Each | \$12.00 | 12.25 | 12.75 | 14.00 |

One in a Box.



LAKEWOOD



Ball Bearing

Finest case hardened drop forged steel balls. Cones are made from steel shafting, turned and ground for true finish. Gears are internal enclosed flat pinion and sliding pawl. Direct drive from both sides.

Flat crucible steel self-sharpening bottom knife. Hardwood varnished handle with adjustable braces. Solid style wheels with eight spokes. Aluminum finish with red and gold trim.

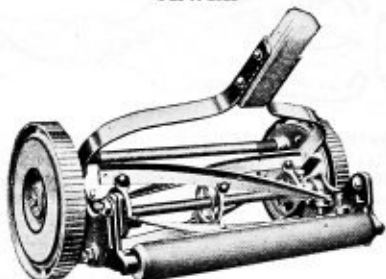
Height of Cut $\frac{1}{2}$ to $1\frac{1}{2}$ in.

9 in. Drive Wheels, Four Crucible Steel Blades

| | | | |
|-----------------------------|---------|-------|-------|
| Width of Cut, Inches..... | 14 | 16 | 18 |
| Shipping Weight Each, Lbs.. | 44 | 47 | 49 |
| Each | \$14.00 | 14.75 | 15.25 |

One in a Box.

JEWEL



Bronze Bearing

Material and workmanship are of the same high quality as used in the higher priced machines. Adjustable split bronze bushings. Pinion and sliding flat pawl drive. Solid wheels.

Flat crucible steel self-sharpening bottom knife. Hardwood varnished handle. Finished in aluminum with red and gold trim.

Height of Cut $\frac{3}{8}$ to $1\frac{1}{2}$ in.

8 in. Drive Wheels, Four Crucible Steel Blades

| | | | |
|-------------------------------|--------|------|-------|
| Width of Cut, Inches..... | 12 | 14 | 16 |
| Shipping Weight Each, Lbs.... | 36 | 38 | 40 |
| Each | \$9.00 | 9.50 | 10.00 |

One in a Box.

LAWN TRIMMERS

COLDWELL, BALL BEARING

For finishing along walks, walls and flower beds, where the regular lawn mower cannot be used. Does away with the job of trimming with shears.

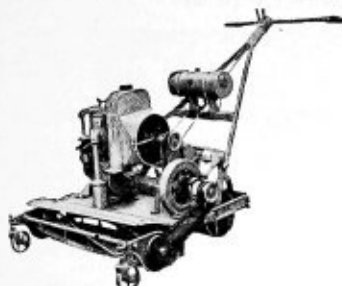
Case hardened drop forged steel balls. Cones made from steel shafting. Fine cut gears, pinion and pawl drive. Solid wheel on right, small caster wheel on left side. Parts are malleable and cast and of first quality.

Finest tool steel, self-sharpening bottom knife, heavily ribbed bottom knife bar. Finished in gold bronze with maroon striping.

Trimmer—8 in. Cut, Four Crucible Steel Blades, 8 in. Wheels, Shipping Weight Each 31 Lbs..... **\$12.75**
One in a Box.

POWER LAWN MOWERS

COLDWELL MODEL "L," WITH ROLLER



Simple, Economical,
Dependable

Designed to fill the need for a practical motor driven, hand controlled lawn mower with plenty of reserve power.

Cuts close up to and around trees, shrubbery, walks and driveways, is efficient on small areas and cuts large areas at a great saving of time.

The cutter knives and full width traction roller are each independently driven direct from the motor and each has its separate clutch and control lever. The full floating cutter front conforms readily to the uneven surface of the ground.

Motor and all working parts are protected from flying grass and dirt. Gears are enclosed and run in oil. Finest roller chain with provision to take up wear.

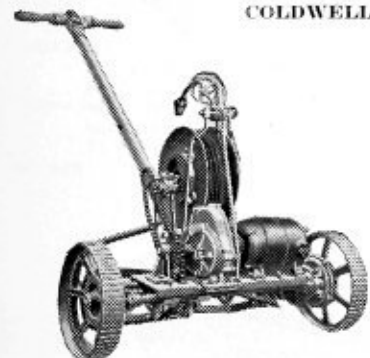
Motor is a Fuller & Johnson, 3 1/2 H. P., 4 Cycle, Water Cooled Motor with Radiator and Fan. Control Levers are conveniently located. Carries a days gas supply. Schebler Carburetor with Choke. Splitdorf Magneto.

Finished in Tartter Green and Gold Each

Model L—Width of Cut 25 in., 6 in. Diameter Reel with 5 Crucible Steel Blades, Cutting Capacity 6 Acres Per Day, Height of Cut 3/8 to 2 in., Consumes 1 Gallon Gasoline Per Day, Full Width Drive Roller in 2 Sections with Differential, Channel Steel Frame, Complete with Metal Tool Box with Full Set of Tools, Weight Each 400 Lbs. \$385.00

ELECTRIC LAWN MOWERS

COLDWELL Mows the lawn quickly and without labor.



Equally suitable for city or suburban lawns and is simple, efficient, inexpensive and dependable which eliminates entirely the drudge of mowing the lawn by hand.

The Mower Unit

Cut Steel Gears are enclosed in dust-proof housing and run in oil. Timken Tapered Roller Bearings carry the revolving Cutter.

the Drive Wheels and the Main Drive Shaft. Triple Pawl Type of Ratchets are used in the drive wheels. Large three section guard roller permits easy turning and prevents marring the turf. Polished hard maple grips on tubular steel handle.

The Power Unit

A 1/2 H. P. General Electric Motor designed to operate in connection with the ordinary house lighting circuit and the specially designed Universal features permit its use on Alternating Current circuit on all frequencies from 60 Cycles to 25 Cycles inclusive and also on Direct Current circuits.

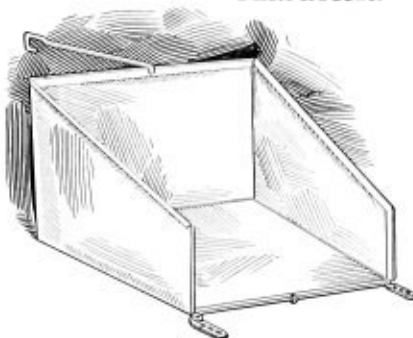
Operating lawn mower under normal conditions, the motor consumes about the same amount of current as an electric iron.

For Use on 110 Volt, House Lighting Circuit A. C. or D. C.

Electric Lawn Mower—Width of Cut 21 in., 5 Tempered Crucible Steel Blades, Cutting Capacity 1/4 Acre Per Hour, Height of Cut 3/8 to 2 1/2 in., Best Quality Tool Steel Bottom Knife, All Cut Steel Gears, Allyn-Zerk Automatic Force Feed Lubrication, Automatic Positive Drive Reel, Complete with 150 ft. Supply Cable on Reel, Drop Cord and Anchor Pin, Weight Each 157 Lbs. \$190.00

GRASS CATCHERS

PERFECTION



Made of fine quality White Canvas, Heavily Galvanized Wire Frame, Adjustable Steel Hooks, will fit any mower made and is always in position to receive catcher.

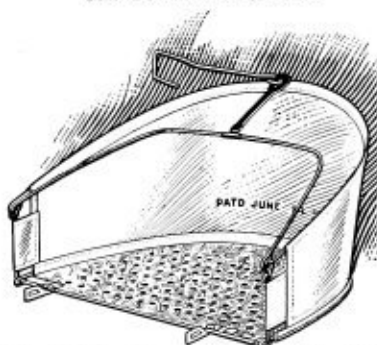
9 in. Deep

Per Dozen

No. 110—For 12 to 16 in. Mowers, Shipping Weight Per Dozen 20 Lbs. \$ 9.00

13 in. Deep

No. 200—For 12 to 16 in. Mowers, Shipping Weight Per Dozen 22 Lbs. 10.50
One Dozen in a Carton.



Extra Fine White Canvas, Heavy Galvanized Non-Skid Iron Bottom, Heavy Galvanized Wire Frame, Adjustable Steel Hooks, will fit any make of mower and always in position to receive Catcher. Perfection Handle.

13 in. Deep

Per Dozen

No. 151—Adjustable for 12 to 16 in. Mowers. . . \$12.00
No. 156—Adjustable for 16 to 20 in. Mowers. . . 14.00

The Non-Skid Bottom prevents the grass from slipping forward in the catcher.

Weight Per Dozen 40 Pounds.

One Dozen in a Box.

LAWN ROLLERS

"DUNHAM" WATER WEIGHT



Roller Bearings, with No-Tip Scraper

Perfectly Round High Carbon Steel Axle, Steel Handle, Wood Grip, Smooth Rolling Surface. Electric Welded Roller makes the water section one solid drum.

Body and Ends Painted Green, Handle Red.

| Nos. | 5 | 7 |
|--|---------|-------|
| Diameter, Inches | 18 | 24 |
| Length, Inches | 24 | 24 |
| Approximate Weight Empty, Lbs. | 85 | 110 |
| Filled with Water, Lbs. | 265 | 420 |
| Each | \$20.00 | 23.00 |

Plain Bearings, without No-Tip Scraper

Otherwise Same General Description and Finish as Above. Each

No. 2—Diameter 14 in., Length 24 in., Weight Each Empty 68 Lbs., Filled with Water 175 Lbs. . . \$13.50

SPRAYERS

PARAGON

Air chamber of the Paragon is of all brass and of sufficient capacity to insure steady spray of high pressure. All valves used are of the latest approved self-seating style, solid brass. Pump Cylinder cast of special metal. Heavy black iron containers heavily galvanized, galvanized agitator keeps solution thoroughly mixed. 16 sq. in. of strainer surface on end of suction pipe is automatically cleaned by agitator.



No. 1

Each

No. 1—Capacity 6 Gallons. Complete with 5 ft. of Special Spray Hose, 5 ft. Pipe, 1 Mist Nozzle, 1 Steel Cap for Mist Nozzle, 1 Straight Spray Nozzle, Weight Each 40 Lbs. \$17.50

One in a Crate.

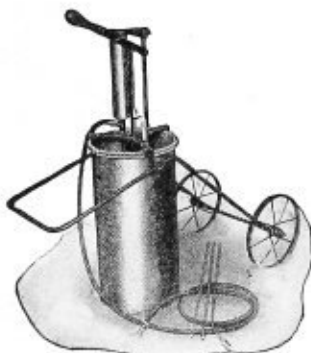
No. 3

Mounted on a strong steel truck and easily wheeled to any desired place. A very popular outfit.

Each

No. 3—Capacity 12 Gallons. Complete with 10 ft. Special Spray Hose, 7 1/2 ft. Extension Pipe, 1 Mist Nozzle, 1 Steel Cap, 1 Straight Spray. Wt. Each 63 Lbs. \$25.00

One in a Crate.



LOWELL FOUNTAIN, COMPRESSED AIR



Devoid of complex or intricate parts, automatic and positive in action and simple in construction.

Brass Pump 1 1/2 in. diameter by 12 in. long. Placed on outside of tank and detachable. Screws into a brass seat which contains brass ball check valve. Brass Automatic Controlling Valve gives positive shut-off.

Automatic Agitation. Adjustable Shoulder Straps to accommodate operators.

Equipment consists of Funnel with Brass Strainer, 3 ft. of 3/4 in. Spray Hose with Nozzle and proper connection and Spray Nozzle, which is curved so that by reversing it can be used for spraying under side of leaves.

Diameter 9 in., Height 13 in., Capacity 3 Gallons.

No. 110—Galvanized Steel, Aluminized. \$ 8.00
No. 111—Brass, Polished and Lacquered. 12.00

Shipping Weight Each 11 Pounds.

One in a Carton.

SPRAYERS

LOWELL BUCKET PUMP

Used in spraying trees, small fruits, shrubbery, etc., washing windows, automobiles, disinfecting, applying white-wash, fly oil, stock dip, etc.

Double Acting, discharging solution on both the up and down stroke.

Hollow Plunger Tube acts as an Air Chamber. A specially designed Nozzle is used with 3 ft. of 3/8 in. hose.

All Working Parts Are of Brass

Each

No. 109—Height to Top of Malleable Iron Foot Rest 13 in., Handle of Malleable Iron, 3/4 in. Solid Bronze Ball Valves, Weight Each 5 Lbs. \$5.50

Two in a Carton.



LOWELL BABY MIDGET



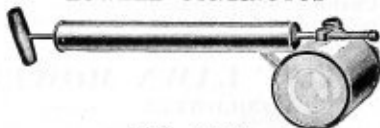
Plain Tin

Per Dozen

No. 122—Capacity 1/2 Pint. 3x2 3/4 in. Tank with 3/4 in. Can Screw, 1 1/4 x 10 in. Pump Tube, Length Over All 15 1/2 in., Weight Per Dozen 9 Lbs. . . . \$4.25

One Dozen in a Carton.

LOWELL CONTINUOUS



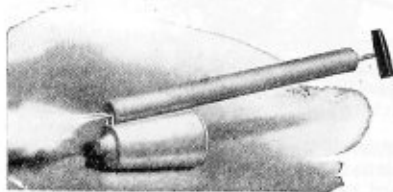
Plain IX Tin

Per Dozen

No. 115—Capacity 1 Quart (Scant), 4 1/4 x 4 1/2 in. Tank, with 3/4 in. Zinc Can Screw, 1 1/2 x 13 1/2 in. Pump Tube, 1/4 in. Plunger Rod, Length Over All 19 1/2 in., Complete with 2 Spray Caps—One Straight and One Angle, Weight Per Dozen 17 Lbs. \$10.50

One Dozen in a Carton.

LOWELL GRAND



Plain Tin

Per Dozen

No. 104—Capacity 1 Quart, Tank 3 in. Diameter at Small End and 4 in. Diameter at Large End, 5 3/4 in. Long, 1 1/2 x 19 1/2 in. Pump Tube, Length Over All 22 1/2 in., Weight Per Dozen 18 Lbs. . . . \$6.50

Has two short solution or spray tubes and is especially adapted for field or garden.

One Dozen in a Carton.

LOWELL POWDER BLOWER



Plain Tin, Bright Red Enamel Finish.

For Handling Powdered Disinfectants. Per Dozen

No. 108—Small End of Tank 3 in. Diameter, Large End 4 in. Diameter, Length 5 3/4 in., 2 in. Can Screw on Back End, 1/4 in. Plunger Rod, 1 1/2 x 19 1/2 in. Air Chamber, Length Over All 22 1/2 in., Weight Per Dozen 18 Lbs. \$11.00

One Dozen in a Carton.

WATER HOSE

VIM



Moulded, Two Braid
In 300 Foot Coils.

| | | | |
|---------------------------|--------|-------|-------|
| Size, Inches | 1 | 1 1/4 | 1 1/2 |
| Weight Per 100 Feet, Lbs. | 48 1/2 | 71 | 82 |
| Per Foot | \$0.30 | .40 | .50 |

Fabric is braided from high grade cotton yarn, each strand running spirally the entire length of the hose, and the plies are separated from each other by layers of high grade rubber.

GARDEN HOSE

MILO



Cut Shows Method of Wrapping
Milo Garden Hose.

Moulded, Corrugated

Made of whole Seamless Tubes, and Braided Jackets vulcanized into one solid unit, producing a hose which does not kink, even when bent sharply, and having a heavy corrugated cover to resist wear over rough surfaces.

In "Milo" hose there are no plies to separate.

With 3/4 in. Fittings

| | |
|--------------------------------------|----------|
| Milo—3/4 in., 50 ft. Length, Coupled | Per Foot |
| Weight Per Length About 16 Pounds. | |
| One Length in a Coil, Wrapped. | |

One Length in a Coil, Wrapped.

LEE CORRUGATED



Two Braid

The tube, plies and cover are all firmly held together with good friction which prevents any possible opening up or separation of the fabrics or the tube or the cover from the rest of the hose.

25 and 50 Ft. Lengths, Coupled

Lee Red, Corrugated

| | | | |
|-----------------------------|--------|-----|-------|
| Size, Inches | 1 1/2 | 2 | 2 1/2 |
| Wt. Per 50 Ft. Length, Lbs. | 12 1/2 | 15 | 18 |
| Per Foot | \$0.17 | .19 | .21 |

Lee Black, Corrugated

| | | | |
|-----------------------------|--------|-----|-------|
| Size, Inches | 1 1/2 | 2 | 2 1/2 |
| Wt. Per 50 Ft. Length, Lbs. | 12 1/2 | 15 | 18 |
| Per Foot | \$0.15 | .17 | .19 |

We Recommend the Above Hose as Being of 1st Quality in Materials and Construction. It is Attractive and Durable and Will Give Absolute Satisfaction.

HOSE CLAMPS

SHERMAN BRASS



Tongue runs in channel. Uniform grip. Heavy shoulder. Stiff ears cannot pull together at top, form perfect nut lock. Steel bolt and nuts.

Heavy Wrought Brass, Rustproof Clear Through
Garden Hose Sizes

| Size Hose, Inches and Ply | 1/2-3 | 3/4-3 | 1-3 |
|---------------------------|--------|-------|-------|
| I. D. Open, Inches | 1 1/2 | 1 3/4 | 2 |
| Weight Per Gross, Lbs. | 5 3/4 | 6 | 6 3/4 |
| Per Dozen | \$0.60 | .60 | .60 |

One Gross in a Box.

Water Hose Sizes

| Size Hose, In. and Ply | I. D. Open, Inches | Gross in Box | Weight Gross, Lbs. | Per Dozen |
|------------------------|--------------------|--------------|--------------------|-----------|
| 1-3 | 1 1/2 | 1 1/2 | 18 | \$2.00 |
| 1-4 | 1 3/4 | 1 3/4 | 20 | 2.00 |
| 1 1/4-3 | 1 3/4 | 1 3/4 | 21 | 2.50 |
| 1 1/4-4 | 1 3/4 | 1 3/4 | 23 | 2.50 |
| 1 1/2-3 | 1 3/4 | 1 3/4 | 30 | 3.00 |
| 1 1/2-4 | 2 | 2 | 31 | 3.00 |

GALVANIZED STEEL

Made of Heavy Sheet Steel, and Galvanized by a Superior Process which effectively Prevents Rust.

They are Strong and Serviceable and have lugs which engage the vise jaws, making it an easy matter to tighten the clamp onto the hose.



| Size Hose, In. and Ply | I. D. Open, Inches | Gross in Box | Weight Gross, Lbs. | Per Dozen |
|------------------------|--------------------|--------------|--------------------|-----------|
| 1/2-3 | 1 1/2 | 1 | 5 1/4 | \$0.40 |
| 3/4-3 | 1 3/4 | 1 | 7 3/4 | .22 |
| 1-3 | 1 3/4 | 1 1/2 | 13 3/4 | .86 |
| 1-4 | 1 3/4 | 1 1/2 | 13 3/4 | .86 |
| 1 1/4-3 | 1 3/4 | 1 1/2 | 19 3/4 | 1.60 |
| 1 1/4-4 | 1 3/4 | 1 1/2 | 20 1/4 | 1.60 |
| 1 1/2-3 | 2 | 1 1/2 | 22 1/4 | 1.94 |
| 1 1/2-4 | 2 1/2 | 1 1/2 | 22 1/2 | 1.94 |

*Garden Hose Sizes, Balance Water Hose.

IDEAL



Steel, Adjustable, Galvanized or Nickel Plated (Specify)

| Size Clamp, In. | I. D. In. Ply | Per 100 | Size Clamp, In. | I. D. In. Ply | Per 100 |
|-----------------|---------------|---------|-----------------|---------------|---------|
| 1 1/2 | 1 1/2-2 | \$4.00 | 2 1/4 | 1 3/4-4 | \$6.20 |
| 3/4 | 1 1/2-2 | 4.00 | 2 3/4 | 2-3 | 6.40 |
| 1 | 1 1/2-3 | 4.10 | 2 3/4 | 2-4 | 6.60 |
| 1 1/4 | 1 1/2-4 | 4.30 | 2 3/4 | 2 1/4-3 | 6.80 |
| 1 1/2 | 1 3/4-3 | 4.50 | 2 3/4 | 2 1/4-4 | 7.00 |
| 1 3/4 | 1 3/4-4 | 4.70 | 2 3/4 | 2 1/2-3 | 7.20 |
| 1 3/4 | 1-3 | 4.90 | 3 | 2 1/2-4 | 7.50 |
| 1 1/2 | 1-4 | 5.00 | 3 1/4 | 2 3/4-4 | 7.60 |
| 1 3/4 | 1 1/4-3 | 5.20 | 3 1/4 | 3-4 | 7.80 |
| 1 3/4 | 1 1/4-4 | 5.40 | 3 1/4 | 3 1/4-4 | 8.00 |
| 1 3/4 | 1 1/2-3 | 5.60 | 4 | 3 1/2-4 | 8.50 |
| 2 | 1 1/2-4 | 5.80 | 4 1/2 | 4-4 | 9.00 |
| 2 1/2 | 1 3/4-3 | 6.00 | | | |

One Hundred in a Box.

Assortments

Each

No. 100—Consists of 10 Sizes, 10 Each from 1 1/4 to 2 3/4 in., Weight 8 1/2 Lbs. \$ 8.00

No. 180—Consists of 18 Sizes, 10 Each from 3/8 to 2 3/4 in., Weight Each 15 Lbs. 12.00

Put Up in Display Cartons.

HOSE COUPLINGS

SHERMAN



Heavy Wrought Brass, Natural Finish, Deep Corrugations,
Double Knurled Flanged

No. 25E—Eastern Gauge

| | | | |
|-------------------|--------|------|------|
| Size, Inches..... | 1/2 | 5/8 | 3/4 |
| Per Dozen | \$2.00 | 2.00 | 2.00 |

Average Weight Per Dozen 2 Pounds.



PERFECT CLINCHING

A perfect coupling that can be attached easily and securely with a hammer, makes a smooth, perfect joint that cannot leak.

No. 100—Heavy Brass, H. P. T.

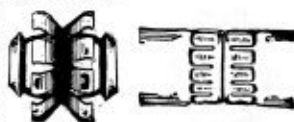
| | | | |
|----------------------------|--------|------|-------|
| Size Hose, Inches..... | 1/2 | 5/8 | 3/4 |
| Weight Per Dozen, Lbs..... | 2 1/4 | 3 | 3 1/2 |
| Per Dozen | \$3.00 | 3.00 | 3.00 |

One Dozen in Display Box.

HOSE MENDERS

PERFECT CLINCHING

Whether the hose be old or new, thick or thin, it adjusts itself to it and makes a mend that cannot leak and will not pull apart. It leaves the hose as smooth as a new unbroken hose. Needs only a hammer to apply.



No. 20—Seamless Brass Tube, Galvanized Steel Clamps

| | | | |
|----------------------------|--------|-------|-------|
| Size Hose, Inches..... | 1/2 | 5/8 | 3/4 |
| Weight Per Dozen, Lbs..... | 1 1/2 | 1 1/2 | 1 3/4 |
| Per Dozen | \$1.20 | 1.20 | 1.20 |

Two Dozen in a Display Box.

COOPER



No. 15—Wrought Brass Tubing, 3 in. Long

No hose clamps required, easy to apply and will not wear out.

| | | | |
|------------------------|--------|------|------|
| Size Hose, Inches..... | 1/2 | 5/8 | 3/4 |
| Weight Dozen, Lbs..... | 1 1/2 | 5/8 | 3/4 |
| Per Dozen | \$1.00 | 1.00 | 1.00 |

One Dozen in a Box.

HOSE NIPPLES

CAST BRASS

No. 91—Male

Hose Thread One End, Taper I. P. T. the Other.

| | | |
|----------------------------|--------|-------|
| Size, Inches..... | 1/2 | 3/4 |
| Weight Per Dozen, Lbs..... | 2 1/4 | 2 1/2 |
| Per Dozen | \$3.00 | 3.00 |

Open Stock.



No. 92—Male and Female

Hose Thread Male End, Taper I. P. T. Female End.

| | | |
|----------------------------|--------|-------|
| Size, Inches..... | 1/2 | 3/4 |
| Weight Per Dozen, Lbs..... | 2 1/4 | 2 1/2 |
| Per Dozen | \$3.00 | 3.00 |

Open Stock.



HOSE ADAPTERS

CAST BRASS

For changing Pittsburgh to Eastern Gauge or Eastern to Pittsburgh Gauge.

Eastern Inside, Pittsburgh Outside

No. 1—1/4 in. Standard.....\$3.00

Pittsburgh Inside, Eastern Outside

No. 2—1/4 in. Standard.....\$3.00

Weight Per Dozen 2 Pounds.

Open Stock.



WATER THIEVES

ROYLE ATTACHMENT

Permits attachment of hose when hose bibb or sill cock is not available. Attached by simply pushing the attachment on a plain bibb or faucet. The greater the pressure of water the tighter it will hold.



No. 55—Heavy Cast Brass, Finished, Best Rubber Washer

For Bibb, Inches.....1/2 5/8

Hose Thread, Inches.....3/4 5/8

Weight Per Dozen, Lbs.....4 5

Per Dozen

HOSE PIPES

SCREW TIP



No. 95—Cast Brass, H. P. T.

| | | |
|-------------------|--------|-------|
| Size, Inches | 3/4 | 3/4 |
| Length, Inches | 6 | 7 1/2 |
| Discharge, Inches | 1/4 | 1/4 |
| Weight Each, Lbs. | 1/3 | 5/12 |
| Each | \$0.55 | .65 |

Open Stock.

LAWN SPRINKLERS

WHIRLING FAIRY



The arms have no adjustment and cannot be twisted away from maximum spraying position.

The head and two arms are formed from one piece Sheet Brass, with Beaded Brass Bottom, resulting in a strong, light, easy turning body.

Brass Body and Arms, Polished and Lacquered

Whirling Fairy—10 in. High, Brightly Enamelled Non-Breakable Malleable Base, Weight Per Carton 30 Lbs. \$1.50

Two in a Box; Six Boxes in a Carton.

STANDARD RAIN KING

Instantly set for either stationary or whirling spray, fast or slow. Nozzles set instantly for any spray operate independently or together.

Solid Brass Nozzles, Bushings and Hand Wheel. Base and Sprinkler Arm Heavy Castings. Painted Green

Standard Rain King—6x5 1/4 in. Base, 5 1/2 in. High, Wt. Each 3 Lbs. . \$3.50
One-half Dozen in a Carton.

GIANT RAIN KING

Has Four Nozzles with the same adjustment as the Standard. Will sprinkle a circle 90 ft. in diameter.

Brass Nozzles, Sprinkler Arms, Bushings and Hand Wheel, Cast Base, Iron Stem.

Painted Green

Giant Rain King—4 ft. High, Spread of Arms 30 in., Weight Each 19 Lbs. \$12.50
One in a Carton.

PLUVIUS

Head and arms revolve on ball bearings, permitting its use with very light water pressure.

Mounted on a sled.

Head and stem are painted red.

Brass Arms

Each

No. 207—Height About 11 in., Weight Per Dozen 35 Lbs. \$1.75

One in a Carton.



LAWN SPRINKLERS

RING



The best sprinkler of its type made; heavier and stronger than the others; perforations in the top are arranged to distribute water in the most thorough and effective manner.

Stamped from Sheet Brass

Each

No. 25—Diameter 8 in., 1 1/2 in. High, Weight Per Dozen 10 Lbs. \$0.85
Each in a Display Box; One Dozen in a Carton.

HOSE REELS

REEL-EEZY

Compact, easy to handle and sturdy. Simply put the socket of a hose in the ring and roll along.

Finished in Grass Green, Wrought Steel Welded Rims

Each

No. 100—24 in. Diameter, 9 in. Wide, Capacity 75 ft. 3/4 in. Garden Hose, or 100 ft. 1/2 in., Weight Each 7 1/2 Lbs. \$2.50

One-half Dozen in a Bundle, K. D.



ALL STEEL

Corrugated Galvanized Steel Drum, Black Japanned Frame, Electric Welded Joints

Each

No. 10—Diameter of Wheels 21 1/2 in., Diameter of Drum 9 in., Width Between Wheels 10 in., Length of Handle 28 in., Capacity 100 ft. of Garden Hose, Weight Each 16 Lbs. . \$3.00

No protruding pins or bolts to catch the clothing, injure the hands or wear the hose. Operated by tipping handle back to the ground.

One-half Dozen in a Crate, K. D.



ALL STEEL

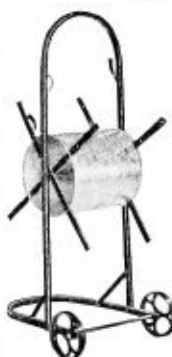
Designed for convenient reeling of the hose and storing it without kinking or cracking. Construction of drum enables air to circulate around the hose, thus thoroughly drying and preventing it from rotting.

Green Enamelled Frame, Natural Finish, Galvanized Drum

Each

No. 2—Capacity 100 ft. of 3/4 in. Hose, 3/4 in. x 16 Gauge Channel Steel Frame and Base, 8 in. Diameter Winding Drum of Corrugated Galvanized Iron with Rolled Edges, Weight Each 9 Lbs. \$2.50

Two in a Bundle, K. D.



STYLE "B"

Absolutely all metal, tubular steel rims and frame, steel spokes and steel reel heads, corrugated galvanized sheet steel drum.

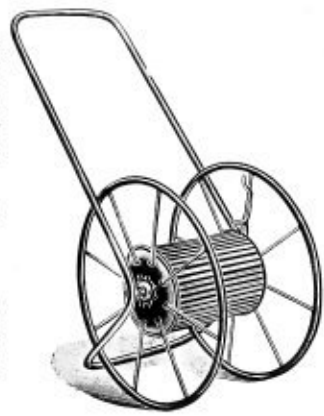
Frame and Drum Head Enamelled Green, Galvanized Drum

Each

No. 20—Cap. 150 ft. 3/4 in. 3-Ply or 75 ft. 1 in. 4-Ply Hose, 24 in. Wheels, Weight Each 17 Lbs. \$6.00

The frame can be tilted down to the ground and forms a stand on which the reel revolves.

One in a Bundle.



SHOVELS

D HANDLE, SQUARE POINT

HUBBARD



Plain Back, Socket Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

Per Dozen

No. 102—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in. \$21.00No. 103—Size 3, Blade $10\frac{1}{4} \times 12\frac{1}{4}$ in. 22.00No. 104—Size 4, Blade $10\frac{3}{4} \times 12\frac{3}{4}$ in. 22.50

Average Weight Per Dozen 63 Pounds.

DIAMOND

Plain Back, Socket Strap

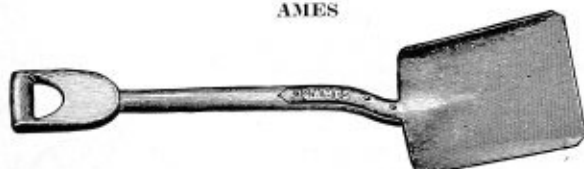
Crucible Cast Steel, Black Finish, Hardwood Handle.

Per Dozen

No. 402—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in. \$16.50No. 403—Size 3, Blade $10\frac{1}{4} \times 12\frac{1}{4}$ in. 17.50No. 404—Size 4, Blade $10\frac{3}{4} \times 12\frac{3}{4}$ in. 18.00

Average Weight Per Dozen 63 Pounds.

AMES



Plain Back, Plain Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

Per Dozen

No. 170—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in. \$28.00

Average Weight Per Dozen 70 Pounds.

HUBBARD



Hollow Back, Socket Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

Per Dozen

No. 502—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in. \$20.00No. 503—Size 3, Blade $10\frac{1}{4} \times 12\frac{1}{4}$ in. 20.50No. 504—Size 4, Blade $10\frac{3}{4} \times 12\frac{3}{4}$ in. 21.00

Average Weight Per Dozen 70 Pounds.

SIMPSON

Hollow Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

Per Dozen

No. 802—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in. \$16.00No. 803—Size 3, Blade $10\frac{1}{4} \times 12\frac{1}{4}$ in. 16.50No. 804—Size 4, Blade $10\frac{3}{4} \times 12\frac{3}{4}$ in. 17.00

Average Weight Per Dozen 70 Pounds.

MOULDERS D HANDLE, SQUARE POINT



Plain Back, Socket Strap

Crucible Cast Steel, Polished, Split D Handle.

Per Dozen

No. 1928—Hubbard, Size 2, Blade $10 \times 11\frac{3}{4}$ in. \$23.00No. 4928—Diamond, Size 2, Blade $10 \times 11\frac{3}{4}$ in. 19.00

Average Weight Per Dozen 56 Pounds.

All Above, One-half Dozen in a Bundle.

SHOVELS

D HANDLE, ROUND POINT

HUBBARD



Plain Back, Socket Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

Per Dozen

No. 122—Size 2, Blade $9\frac{3}{4} \times 12\frac{3}{4}$ in. \$21.00No. 123—Size 3, Blade $9\frac{1}{2} \times 13\frac{1}{4}$ in. 22.00

Average Weight Per Dozen 63 Pounds.

DIAMOND

Plain Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

Per Dozen

No. 422—Size 2, Blade $9\frac{3}{4} \times 12\frac{3}{4}$ in. \$16.50No. 423—Size 3, Blade $9\frac{1}{2} \times 13\frac{1}{4}$ in. 17.50

Average Weight Per Dozen 63 Pounds.

AMES



Plain Back, Plain Strap

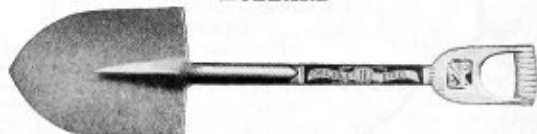
Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

Per Dozen

No. 175—Size 2, Blade $9\frac{3}{4} \times 12\frac{3}{4}$ in. \$28.00

Average Weight Per Dozen 67 Pounds.

HUBBARD



Hollow Back, Socket Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

Per Dozen

No. 522—Size 2, Blade $9\frac{3}{4} \times 12\frac{3}{4}$ in. \$20.00No. 523—Size 3, Blade $9\frac{1}{2} \times 13\frac{1}{4}$ in. 20.50

Average Weight Per Dozen 70 Pounds.

SIMPSON

Hollow Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

Per Dozen

No. 822—Size 2, Blade $9\frac{3}{4} \times 12\frac{3}{4}$ in. \$16.00No. 823—Size 3, Blade $9\frac{1}{2} \times 13\frac{1}{4}$ in. 16.50

Average Weight Per Dozen 70 Pounds.

All Above, One-half Dozen in a Bundle.

SHOVELS

LONG HANDLE, SQUARE POINT

HUBBARD



Plain Back, Socket Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

| | Per Dozen |
|--|-----------|
| No. 112—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in..... | \$21.00 |
| No. 113—Size 3, Blade $10\frac{1}{4} \times 12\frac{1}{4}$ in..... | 22.00 |
| No. 114—Size 4, Blade $10\frac{3}{4} \times 12\frac{3}{4}$ in..... | 22.50 |
| Average Weight Per Dozen 66 Pounds. | |

DIAMOND

Plain Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

| | Per Dozen |
|--|-----------|
| No. 412—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in..... | \$16.50 |
| No. 413—Size 3, Blade $10\frac{1}{4} \times 12\frac{1}{4}$ in..... | 17.50 |
| No. 414—Size 4, Blade $10\frac{3}{4} \times 12\frac{3}{4}$ in..... | 18.00 |
| Average Weight Per Dozen 66 Pounds. | |

HUBBARD



Hollow Back, Socket Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

| | Per Dozen |
|--|-----------|
| No. 512—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in..... | \$20.00 |
| No. 513—Size 3, Blade $10\frac{1}{4} \times 12\frac{1}{4}$ in..... | 20.50 |
| Average Weight Per Dozen 70 Pounds. | |

SIMPSON

Crucible Cast Steel, Black Finish, Hardwood Handle.

| | Per Dozen |
|--|-----------|
| No. 812—Size 2, Blade $9\frac{3}{4} \times 11\frac{3}{4}$ in..... | \$16.00 |
| No. 813—Size 3, Blade $10\frac{1}{4} \times 12\frac{1}{4}$ in..... | 16.50 |
| Average Weight Per Dozen 70 Pounds. | |

LONG HANDLE ROUND POINT

HUBBARD



Plain Back, Socket Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

| | Per Dozen |
|---|-----------|
| No. 132—Size 2, Blade $9\frac{1}{2} \times 12$ in..... | \$21.00 |
| No. 133—Size 3, Blade $9\frac{3}{4} \times 12\frac{1}{2}$ in..... | 22.00 |
| Average Weight Per Dozen 66 Pounds. | |

DIAMOND

Plain Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

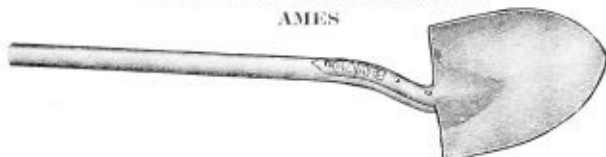
| | Per Dozen |
|---|-----------|
| No. 432—Size 2, Blade $9\frac{1}{2} \times 12$ in..... | \$16.50 |
| No. 433—Size 3, Blade $9\frac{3}{4} \times 12\frac{1}{2}$ in..... | 17.50 |
| Average Weight Per Dozen 66 Pounds. | |

All Above, One-half Dozen in a Bundle.

SHOVELS

LONG HANDLE, ROUND POINT

AMES



Plain Back, Plain Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

| | Per Dozen |
|--|-----------|
| No. 182—Size 2, Blade $9\frac{1}{2} \times 12$ in..... | \$28.00 |
| Average Weight Per Dozen 67 Pounds. | |

HUBBARD



Hollow Back, Socket Strap

Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle.

| | Per Dozen |
|---|-----------|
| No. 532—Size 2, Blade $9\frac{1}{2} \times 12$ in..... | \$20.00 |
| No. 533—Size 3, Blade $9\frac{3}{4} \times 12\frac{1}{2}$ in..... | 20.50 |
| Average Weight Per Dozen 70 Pounds. | |

SIMPSON

Hollow Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

| | Per Dozen |
|---|-----------|
| No. 832—Size 2, Blade $9\frac{1}{2} \times 12$ in..... | \$19.00 |
| No. 833—Size 3, Blade $9\frac{3}{4} \times 12\frac{1}{2}$ in..... | 19.50 |
| Average Weight Per Dozen 70 Pounds. | |

SPADES

D HANDLE, SQUARE POINT



Plain Back, Socket Strap Per Dozen

| | |
|---|---------|
| No. 142—Hubbard, Size 2, Blade 7×12 in., Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle, Average Weight Per Dozen 62 Lbs. | \$21.00 |
| No. 442—Diamond, Size 2, Blade 7×12 in., Crucible Cast Steel, Black Finish, Hardwood Handle, Average Weight Per Dozen 62 Lbs. | 22.00 |



Plain Back, Plain Strap Per Dozen

| | |
|--|---------|
| No. 189—Ames, Size 2, Blade 7×12 in., Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle, Average Weight Per Dozen 60 Lbs. | \$28.00 |
|--|---------|



Hollow Back, Socket Strap Per Dozen

| | |
|--|---------|
| No. 542—Hubbard, Size 2, Blade $7\frac{1}{2} \times 12$ in., Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle, Average Weight Per Dozen 65 Lbs. | \$20.00 |
| No. 842—Simpson, Size 2, Blade $7\frac{1}{2} \times 12$ in., Crucible Cast Steel, Black Finish, Hardwood Handle, Average Weight Per Dozen 65 Lbs. | 16.00 |

All Above, One-half Dozen in a Bundle.

SPADES

LONG HANDLE, SQUARE POINT



Plain Back, Socket Strap Per Dozen

No. 152—Hubbard, Size 2, Blade 7x12 in., Best Crucible Cast Steel, Black Finish, Selected Hardwood Handle, Average Weight Per Dozen 66 Lbs. \$21.00

No. 452—Diamond, Size 2, Blade 7x12 in., Crucible Cast Steel, Black Finish, Hardwood Handle, Average Weight Per Dozen 66 Lbs. 22.00

CONCRETE, LONG HANDLE
SQUARE POINT

Plain Back, Socket Strap Per Dozen

No. 152C—Hubbard, Size 2, Blade 7x12 in., Perforated, Crucible Cast Steel Blade, Black Finish, Selected Hardwood Handle, Average Weight Per Dozen 59 Lbs., 4 1/2 ft. Handle. \$34.00

No. 1528C—8 ft. Handle. 50.00

BOYS D HANDLE, SQUARE POINT



Strap Back, Riveted Per Dozen

No. 491—Size 1, Width of Blade 6 1/2 in., Length of Blade 9 1/2 in., Black Finish, 23 in. D Handle. \$13.00

DITCHING
D HANDLE

Hubbard

Plain Back, Socket Strap

Crucible Steel Blade, Black Finish, 5 1/2 in. Wide at Top, 6 1/2 in. Wide at Point, Selected Hardwood Handle.

| | | |
|-----------------------------------|---------|-------|
| Nos. | 183 | 184 |
| Length Blade, Inches. | 16 | 18 |
| Aver. Weight Per Dozen, Lbs. | 58 | 62 |
| Per Dozen | \$21.00 | 21.50 |

DRAIN
D HANDLE

Hubbard

Plain Back, Socket Strap

Crucible Steel Blade, Black Finish, 5 1/2 in. Wide at Top, 4 3/8 in. Wide at Point, Selected Hardwood Handle.

| | | |
|-----------------------------------|---------|-------|
| Nos. | 173 | 174 |
| Length Blade, Inches. | 16 | 18 |
| Aver. Weight Per Dozen, Lbs. | 60 | 62 |
| Per Dozen | \$24.00 | 25.00 |

COAL SHOVELS
CORRUGATED

Hollow Back, Socket Strap

Crucible Cast Steel, Black Finish.

Hubbard D Handle

| | | | | |
|--------------------------|-------------|-------------|-------------|-------------|
| Nos. | 16101 | 16102 | 16103 | 16104 |
| Size, Nos. | 1 | 2 | 3 | 4 |
| Size Blade, Inches. | 13 1/2 x 14 | 14 x 14 1/2 | 14 1/2 x 15 | 15 x 15 1/2 |
| Av. Wt. Dozen, Lbs. | 60 | 62 | 64 | 67 |
| Per Dozen | \$22.50 | 23.00 | 23.50 | 24.00 |

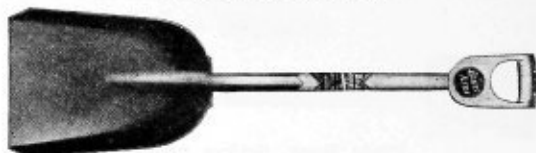
Simpson, D Handle

| | | | | |
|----------------|---------|-------|-------|-------|
| Nos. | 16401 | 16402 | 16403 | 16404 |
| Per Dozen | \$18.50 | 19.00 | 19.50 | 20.00 |

All Above, One-half Dozen in a Bundle.

LOCOMOTIVE OR COAL SCOOPS

EASTERN PATTERN



Hollow Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

Hubbard, D Handle

| | | | | |
|--------------------------|---------|-----------------|-------|-----------------|
| Nos. | 7102 | 7103 | 7104 | 7105 |
| Size, Nos. | 2 | 3 | 4 | 5 |
| Size Blade, Inches. | 11x15 | 11 1/4 x 15 1/2 | 12x16 | 12 1/2 x 16 1/2 |
| Av. Wt. Doz., Lbs. | 62 | 66 | 70 | 74 |
| Per Dozen | \$22.00 | 22.50 | 23.00 | 23.50 |

| | | | |
|--------------------------|---------|-------------|-----------------|
| Nos. | 7106 | 7108 | 7110 |
| Size, Nos. | 6 | 8 | 10 |
| Size Blade, Inches. | 13x17 | 13 3/4 x 18 | 15 1/4 x 18 3/4 |
| Av. Wt. Doz., Lbs. | 82 | 92 | 98 |
| Per Dozen | \$24.00 | 24.50 | 26.00 |

Simpson, D Handle

| | | | | |
|----------------|---------|-------|-------|-------|
| Nos. | 7402 | 7403 | 7404 | 7405 |
| Per Dozen | \$18.00 | 18.50 | 19.00 | 19.50 |
| Nos. | 7406 | 7408 | 7410 | |
| Per Dozen | \$20.00 | 20.50 | 22.00 | |



Hubbard, Long Handle

| | | | |
|--------------------------|---------|-----------------|-------|
| Nos. | 7112 | 7113 | 7114 |
| Size, Nos. | 2 | 3 | 4 |
| Size Blade, Inches. | 11x15 | 11 1/4 x 15 1/2 | 12x16 |
| Av. Wt. Dozen, Lbs. | 64 | 68 | 72 |
| Per Dozen | \$22.00 | 22.50 | 23.00 |

Simpson, Long Handle

| | | | |
|----------------|---------|-------|-------|
| Nos. | 7412 | 7413 | 7414 |
| Per Dozen | \$18.00 | 18.50 | 19.00 |

EASTERN PATTERN



Riveted Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

Hubbard, D Handle

| | | | | |
|--------------------------|-------------|-----------------|-------------|-------------|
| Nos. | 1502 | 1503 | 1504 | 1505 |
| Size, Nos. | 2 | 3 | 4 | 5 |
| Size Blade, Inches. | 11 1/2 x 15 | 11 3/4 x 15 1/2 | 11 3/4 x 16 | 12 x 16 1/2 |
| Av. Wt. Doz., Lbs. | 75 | 84 | 90 | 100 |
| Per Dozen | \$22.00 | 22.50 | 23.00 | 23.50 |

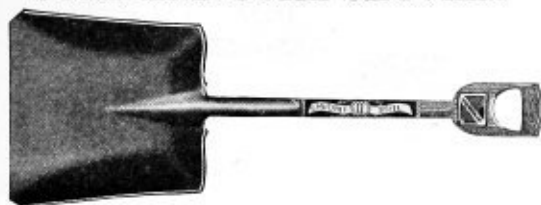
| | | | |
|--------------------------|-------------|-------------|-------------|
| Nos. | 1506 | 1508 | 1510 |
| Size, Nos. | 6 | 8 | 10 |
| Size Blade, Inches. | 12 1/2 x 17 | 13 1/2 x 18 | 15 x 18 3/4 |
| Av. Wt. Doz., Lbs. | 102 | 110 | 115 |
| Per Dozen | \$24.00 | 24.50 | 26.00 |

Simpson, D Handle

| | | | | |
|----------------|---------|-------|-------|-------|
| Nos. | 1802 | 1803 | 1804 | 1805 |
| Per Dozen | \$18.00 | 18.50 | 19.00 | 19.50 |
| Nos. | 1806 | 1808 | 1810 | |
| Per Dozen | \$20.00 | 20.50 | 22.00 | |

All Above, One-half Dozen in a Bundle.

COAL AND COKE SHOVELS



Hollow Back, Socket Strap

Crucible Cast Steel, Black Finish, Hardwood Handle.

Hubbard, D Handle

| Nos. | 6101 | 6102 | 6103 | 6104 |
|--------------------|-------------|-------------|-------------|-------------|
| Size, Nos. | 1 | 2 | 3 | 4 |
| Size Blade, In. | 13 1/2 x 14 | 14 x 14 1/2 | 14 1/2 x 15 | 15 x 15 1/2 |
| Weight Dozen, Lbs. | 70 | 76 | 83 | 90 |
| Per Dozen | \$22.50 | 23.00 | 23.50 | 24.00 |

Simpson, D Handle

| Nos. | 6401 | 6402 | 6403 | 6404 |
|-----------|---------|-------|-------|-------|
| Per Dozen | \$18.50 | 19.00 | 19.50 | 20.00 |



Hubbard, Long Handle

| Nos. | 6111 | 6112 | 6113 |
|---------------------|-------------|-------------|-------------|
| Size, Nos. | 1 | 2 | 3 |
| Size Blade, Inches. | 13 1/2 x 14 | 14 x 14 1/2 | 14 1/2 x 15 |
| Weight Dozen, Lbs. | 72 | 78 | 85 |
| Per Dozen | \$22.50 | 23.00 | 23.50 |

Simpson, Long Handle

| Nos. | 6411 | 6412 | 6413 |
|-----------|---------|-------|-------|
| Per Dozen | \$18.50 | 19.00 | 19.50 |

FURNACE SCOOPS

D HANDLE



Hollow Back, Socket Strap

No. 940F—Special, Size 9 1/4 x 15 in., Crucible Steel Blade, Black Finish, Weight Per Dozen 60 Lbs. \$16.00

LONG HANDLE



Hollow Back, Socket Strap

No. 950F—Special, Size 9 1/4 x 14 in., Crucible Steel Blade, Black Finish, Weight Per Dozen 60 Lbs. \$16.00

POTATO SCOOPS

CHAMPION



Riveted Back, Socket Strap, Wood D Handle

No. 25—13x16 in. Scoop, Tinned Wire with Galvanized Steel Sides, Length Handle 27 in. \$36.00

Weight Per Dozen 75 Pounds.

All Above, One-half Dozen in a Bundle.

TELEGRAPH SHOVELS

HUBBARD



Plain Back, Socket Strap

Crucible Cast Steel Blade, Black Finish, Selected Hardwood Bent Handle.

No. 80A—9 1/4 x 11 1/4 in., 9 in. Strap, Length of Handle 8 Feet. Per Dozen \$48.00

One-half Dozen in a Bundle.

TELEGRAPH SPOONS

HUBBARD



Plain Back, Socket Strap

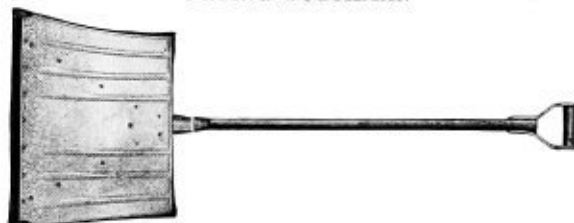
Crucible Cast Steel Blade, Black Finish, Selected Hardwood Handle.

No. S80A—Length of Strap 9 in., Length of Handle 8 Feet. Per Dozen \$48.00

One-half Dozen in a Bundle.

SNOW SHOVELS

FLYING DUTCHMAN



Blade is corrugated and stiffened with angle steel ribs or braces riveted to handle and blade. Blade is reinforced by a rod enclosed in the edges and has an extra heavy ribbed, steel shoe.

Heavy Galvanized Blades

No. 33—21x16 in. Blade, Black Iron "D" Top, Hardwood Varnished Handle, Weight Dozen 61 Lbs. \$17.50

One-half Dozen in a Bundle.

GOOD LUCK



Handle is bent to fit the curves of blade. Steel rod enclosed in edges for reinforcing.

Galvanized Steel Blade

No. 34—17x16 in. Blade, Ribbed Steel Shoe, Hardwood Split D Handle with Round Corners, Wt. Per Dozen 47 Lbs. \$11.00

One-half Dozen in a Bundle.

SIDEWALK CLEANERS



Solid Steel, Medium Weight, Black Finish

No. YSC—Solid Shank, Blade 7½ in. Wide, 4½ ft. Handle, Weight Per Dozen 35 Lbs.\$10.80
One Dozen in a Bundle.



Solid Steel, Extra Heavy Blades, Black Finish

No. SSC—Solid Socket, Double Bead, Blades 6 in. Deep, 4½ ft. Selected Handle, Weight Per Dozen 43 Lbs.\$12.00
One Dozen in a Bundle.

SNOW PUSHERS

CHAMPION

Built for heavy duty. Curved braced blade permits severest strain. Turns snow or dirt like a plow. Also an excellent barn and street cleaner. Scrapes floors and cement surfaces clean.

16 Gauge Spring Steel Blade



Per Dozen
No. 125—Blade 18 in. Wide, 8 in. Deep, No. 1 Quality Handle Set in a Malleable Socket, Wt. Per Dozen 60 Lbs.\$18.00
Three in a Bundle.

SNOW PLOWS

PRENTICE



20 Gauge Steel Head with Iron Brace

No. 21—Correct Form, Angle, Bracing, Proportions and Hang, Long Hardwood Handle, Weight Per Dozen 65 Lbs.\$12.00
One-half Dozen in a Bundle.

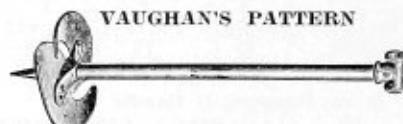
POST HOLE AUGERS

IWAN



Crucible Steel Blades, Tempered and Polished, Malleable Iron Arch, Steel Pipe Handle, Wood Cross Bar
¾ in. Pipe Handle, 22 in. Cross Bar, 48 in. Long Over All.
Nos. 40 50 60 80
Size, Inches 4 5 6 8
Weight Dozen, Lbs. 84 90 101 112
Per Dozen \$28.00 28.00 28.00 30.00
One-quarter Dozen in a Bundle.

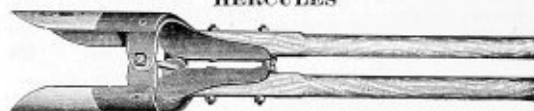
VAUGHAN'S PATTERN



Forged Steel Blades, Steel Pipe Handle, Malleable Iron Top and Point, Painted Black, without Cross Bars
49 in. Long Over All, 44 in. Handle, ¾ in. Diameter, Point Underneath Blade 3¼ in. Long, 1¼ in. Hole at Top.
Nos. 4 5 6 7 8
Size, Inches 4 5 6 7 8
Weight Dozen, Lbs. 48 52 56 57 58
Per Dozen \$24.00 24.00 24.00 24.00 24.00
One-quarter Dozen in a Bundle.

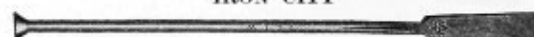
POST HOLE DIGGERS

HERCULES



Per Dozen
Hercules—5x9 in. High, Carbon Steel Blades, Malleable Iron Castings, 1¾x48 in. Round Handles with Square Butts, Weight Per Dozen 108 Lbs.\$24.00
Castings are bolted together from the outside, with bolt passing through the digger, instead of being joined in the center, making a stronger and more rigid tool.
One-sixth Dozen in a Bundle.

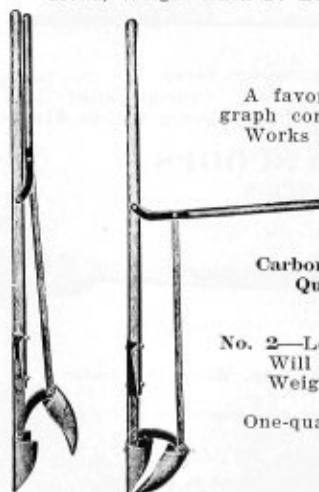
IRON CITY



Per Dozen
No. 88—Length 6 ft., Diameter 1 in., Width of Blade 3 in., Made of Solid Steel with Tamping Head, Weight Each 17 Lbs.\$29.00

UNIVERSAL

A favorite with railroad and telegraph companies.
Works in all kinds of soil.



Carbon Shovel Steel Blade, X Quality Lever Handles

Per Dozen
No. 2—Length 5 ft. 10 in., Will Dig a Hole 3 ft. 8 in., Weight Each 16½ Lbs.\$40.00
One-quarter Dozen in a Bundle.

WHEELBARROWS

STONE



Bent Handle, Solid Bottom, Well Painted and Bolted
Each

- No. 13—Bottom $1\frac{1}{2}$ in. Thick, 23 in. Wide, 23 in. Long, Handles 60 in. Long, Dash 9 in. High, Steel Wheel 17 in. Diameter with $2\frac{1}{2}$ in. Tire and Eight $\frac{1}{2}$ in. Spokes, 7 in. Hub, $\frac{5}{8}$ in. Axle, Weight Each 65 Lbs. \$10.00
One in a Bundle, Knocked Down.

RAILROAD OR GENERAL PURPOSE



Constructed of Seasoned Oak, Ash and Hickory
Each

- Pittsburgh—Capacity 2 Cubic Feet, Width at Top Front $20\frac{1}{4}$ in., Width at Top Back $23\frac{3}{4}$ in., Depth at Handles $5\frac{1}{4}$ in., Depth at Wheel 7 in., $1\frac{1}{2}$ x 2 x 60 in. Handles, Mortised Corners Reinforced with Metal Cleats, Weight Each 40 Lbs. \$4.00

GARDEN



Seasoned Wood, Painted Red, Green Inside, Striped and Varnished
Each

- No. 6 $\frac{1}{2}$ —28x20 $\frac{1}{2}$ x16 $\frac{1}{2}$ in. Bed, 11 $\frac{1}{2}$ in. Deep, 31x11 $\frac{1}{2}$ in. Side Boards, $1\frac{1}{2}$ x 2 $\frac{1}{2}$ x 56 in. Hardwood Handles, Straight Wood Legs, with Iron Braces, 20 in. Diameter Steel Wheel with $1\frac{1}{2}$ x $1\frac{1}{4}$ in. Wrought Iron Tire, $\frac{3}{8}$ in. Round Steel Spokes, Weight Each 50 Lbs. \$7.00

BOYS GARDEN



Seasoned Wood, Painted Red, Striped and Varnished, Wheel Painted Black
Each

- No. 6 $\frac{1}{2}$ B—23x17 $\frac{1}{2}$ x14 in. Bed, 8 $\frac{1}{2}$ in. Deep, 8 $\frac{1}{2}$ x 23 in. Side Boards, $1\frac{1}{2}$ x 2 $\frac{1}{4}$ x 56 in. Handles, Straight Wood Legs with Iron Braces, 16 in. Diameter Steel Wheel with $1\frac{1}{2}$ x $\frac{1}{4}$ in. Tire and $\frac{3}{8}$ in. Round Spokes, Weight Each 35 Lbs. \$6.50
All Above, One in a Bundle, Knocked Down.

WHEELBARROWS

GARDEN



Painted Red, Green Inside, Striped and Varnished

Large Size, Extra Strong, for Stable, Farm and Mill use.
Each

- No. 9—31x24x19 in. Bed, 14 in. Deep, 14x20 in. Front Board, 14x34 in. Side Boards, 2x2 $\frac{1}{4}$ x 62 in. Handles, Angle Steel Legs and Sockets for Side Boards, 20 in. Diameter Steel Wheel with $1\frac{1}{2}$ x $\frac{1}{4}$ in. Tire, Weight Each 70 Lbs. \$8.80
One in a Bundle, Knocked Down.

LIGHT GENERAL USE



Steel Tray without Seam or Lap, Hardwood Handles and Legs, Well Braced and Bolted
Each

- No. 101—Capacity 3 cu. ft. Dry Material, 28x32 in. One-piece 18 Gauge Steel Tray with Edge Turned Over a $\frac{3}{8}$ in. Steel Rod, Depth at Wheel 7 in., Depth at Handles 5 in., Painted with Bright Red Handles and Legs, and Black Tray and Wheel, "Never Break" 16 in. Diameter Steel Wheel with $1\frac{1}{2}$ x $\frac{1}{4}$ in. Tire and Six $\frac{3}{8}$ in. Spokes, 6 in. Hub, $\frac{1}{2}$ in. Axle, Weight Each 42 Lbs. \$6.50
One in a Bundle, Knocked Down.

BULLFROG, CONTRACTORS



Hardwood Handles, Angle Iron Legs, Well Braced and Bolted, with Wood Riser
Each

- No. 25A-4WR—Capacity 4 cu. ft., Dry, 16 Gauge Steel Tray, with Edge Turned Over Steel Rod, $1\frac{3}{4}$ x 2 $\frac{1}{4}$ x 66 in. Handles, Ends Tipped with Sheet Steel, "Never Break" 17 in. Diameter Steel Wheel with $1\frac{1}{2}$ x $\frac{3}{8}$ in. Wrought Iron Tire, $\frac{1}{2}$ in. Round Spokes and 7 in. Rivetless Malleable Iron Hub, $\frac{5}{8}$ in. Axle, Tray 37x29 $\frac{1}{2}$ in., 9 in. Deep at Wheel, 6 in. Drop at Handles, Weight Each 60 Lbs. \$9.50
One in a Bundle, Knocked Down.

WHEELBARROWS

BULL FROG CONCRETE AND MORTAR



All Parts Neatly Painted

Narrow deep stamped tray, especially designed for pouring concrete and in narrow spaces.

No. 64—Capacity 4 cu. ft. of Dry and 3 cu. ft. of Wet Material, 25x38 1/2 in. Tray, Vertical Depth at Handles 7 1/2 in., at Wheel 10 1/2 in., Heavy Angle Iron Nose Guard, Extra Heavy 1 1/2 x 2 1/2 in. Handles, 17 in. Diameter Easy Wheeling Wheel, Weight Each 70 Lbs. \$10.00

One in a Bundle, Knocked Down.

BULL FROG CONCRETE



Equipped with angle iron wheel guard loop, which strengthens the frame and permits of forward dumping. Angle iron risers underneath tray elevate front end of tray so that in wheeling the tray stands level.

Angle Iron Cross Pieces

No. 42—Capacity 4 cu. ft. of Dry Material, 3 cu. ft. of Wet Material, Tray 29 1/2 in. Wide at Top by 37 in. Long, Depth at Handle 6 1/2 in., at Wheels 9 in., Equipped with 17 in. Diameter Wheel with 1 1/2 x 3/8 in. Tire, 8 Spokes, 1/2 in. Diameter, Weight Each 75 Lbs. \$11.00

One in a Bundle, Knocked Down.

BUCKEYE TUBULAR



Double bend in frame places wheel under load. Handles are of 1 in. tubing bent around the front of the wheel which permits forward dumping.

One-Piece Stamped Steel Tray, Beaded Top Edge

No. 19—Capacity 8 cu. ft., 16 Gauge Steel Tray, Size 49x40 in. on Top, 24 in. Deep at Wheel, 14 in. Deep at Handles, Weight Each 100 Lbs. \$19.75

One in a Bundle, Knocked Down.

WHEELBARROWS

BULL FROG TUBULAR



Wheel is placed under load due to double bend in frame.

Handles are of 1 in. tubing bent around in front of wheel which permits forward dumping. Angle iron legs well braced and bolted to frame.

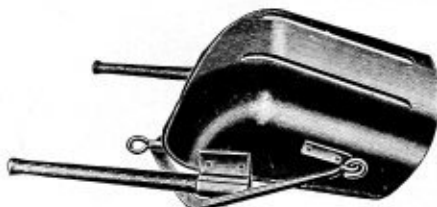
One-Piece Stamped Steel Tray, Beaded Top Edge

| Nos. | 4 | 5 | 10 |
|------------------------------|---------|--------|--------|
| Gauge of Steel..... | 14 | 14 | 13 |
| Length of Top, Inches..... | 32 | 37 | 42 1/2 |
| Width at Top, Inches..... | 28 | 29 1/2 | 33 1/2 |
| Depth at Wheel, Inches..... | 7 | 9 | 11 1/2 |
| Depth at Handle, Inches..... | 5 | 6 1/2 | 8 |
| Capacity, Cu. Ft..... | 3 | 4 | 6 |
| Weight Each, Lbs..... | 70 | 75 | 100 |
| Each | \$11.75 | 12.00 | 15.50 |

One in a Bundle, Knocked Down.

DRAG SCRAPERS

MAUMEE



With Runners, Riveted On

Bowl is pressed from a single sheet of high carbon scraper steel, without lap or seam. Will scour perfectly in any kind of soil.

Sides at front are not sheared off, but carried up on a line with the top. This prevents dirt spilling on the haul and wear on the point when returning from the dump.

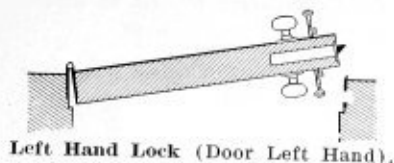
Flanges stiffen the bowl. Bail is made of solid forged steel and will stand great strain. Malleable iron swivel turns freely. Heavy steel hooks and handle sockets. Runners are made of special hardened steel and handles are of selected hardwood.

| Nos. | 1 | 2 |
|----------------------------|----------|-------------|
| Capacity, Cu. Ft..... | 7 | 5 |
| Size of Bowl, Inches..... | 34x33x10 | 32x30x9 1/2 |
| Approx. Weight Each, Lbs.. | 87 | 84 |
| Each | \$12.50 | 12.00 |

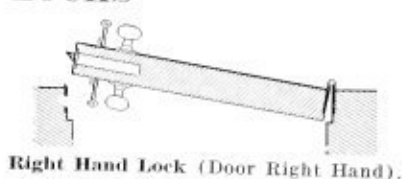
SOME OF THE SPECIAL FEATURES OF THE
"BULL FROG" WHEELBARROWS

"Never-Break" Wheels, Rivetless Malleable Hub, Grease Pocket in Hub for Lubrication, Angle Iron Legs Running Back on Handles Adding to the Strength.

HAND OF MORTISE LOCKS



OUTSIDE



Left Hand Reverse Bevel Lock
If Operated by Key from Outside Only.
(Door Right Hand).

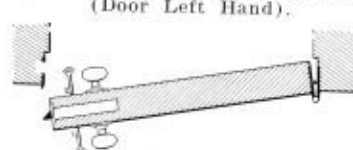
OUTSIDE



Right Hand Reverse Bevel Lock
If Operated by Key from Outside Only.
(Door Left Hand).



OUTSIDE



If Key Functions are the Same from Both Sides, Otherwise Left Hand Reverse Bevel Lock.
(Door Right Hand).

Left Hand Lock

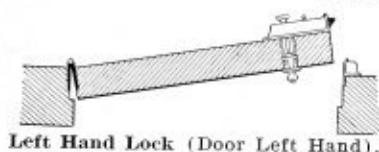
If Key Functions are the Same from Both Sides, Otherwise
Right Hand Reverse Bevel Lock.
(Door Left Hand).

BEVEL OF DOOR

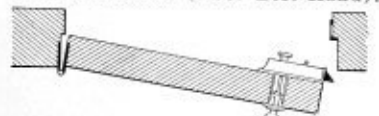
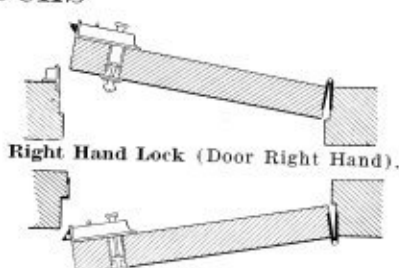


The standard bevel of the fronts of mortise locks which are not reversible is $\frac{3}{8}$ inch in two inches, to conform to the bevel of the edge of the door.

HAND OF RIM LOCKS



OUTSIDE

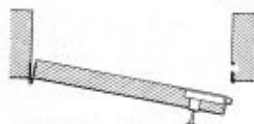


Left Hand Reverse Bevel Lock
(Door Right Hand).

OUTSIDE

Right Hand Reverse Bevel Lock
(Door Left Hand).

BOOK CASE OR CUPBOARD



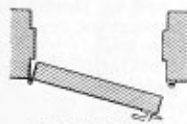
Left Hand Lock (Door Left Hand).

OUTSIDE

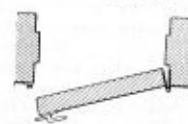


Right Hand Lock (Door Right Hand).

CASEMENT WINDOWS



Left Hand



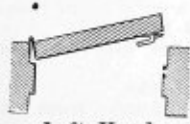
Right Hand

OPENING IN

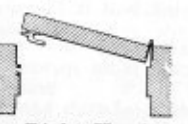


Left Hand

Right Hand

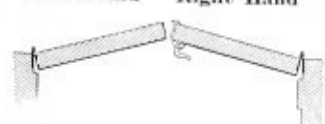


Left Hand



Right Hand

OPENING OUT



Left Hand

Right Hand

DESCRIPTION OF FINISHES

On Hardware Manufactured by P. & F. Corbin Specify Finish by Prefixing Symbol to Number.

For Cast and Wrought Bronze

B—Natural Color, Polished.
HB—Statuary Light.
SHB—Statuary Light, Sanded.
E—Nickel Plated, Polished.

DE—Nickel Plated, Dull.
HPE—Imitation Half-Polished Iron.
R—Antique Copper.

For Cast and Wrought Brass

A—Natural Color, Polished.
EA—Natural Color, Dull.
KA—Oxidized and Relieved (Suitable Only for Ornamental Goods).

SKA—Oxidized and Relieved, Sanded.
2A—Oxidized and Relieved, Sanded, Edges and High Parts Polished.

For Steel and Iron

Amber, Coppered, Japanned, Galvanized, Dead Black and White Enamel Finishes are furnished only on Articles so described in this Catalog and are applied to Unpolished Surface.

Unpolished Plated Finishes are furnished only on Articles so indicated in this Catalog by the Letter "T" Prefixed to the Number.

EA—Brass Plated, Dull.
KA—Brass Plated, Oxidized and Relieved.
Suitable Only for Ornamental Goods.
SKA—Brass Plated, Oxidized and Relieved, Sanded.
2A—Brass Plated, Oxidized and Relieved, Sanded, Edges and High Parts Polished.
N—Bronze Plated, Polished.
C—Coppered.
TY—Amber.

HB—Bronze Plated, Statuary Light.
SHB—Bronze Plated, Statuary Light, Sanded.
E—Nickel Plated, Polished.
DE—Nickel Plated, Dull.
R—Antique Copper.
F—Genuine Rustless Iron.
KF—Imitation Rustless Iron.
G—Electro Galvanized.
J—Japanned.

On Hardware Manufactured by Stanley Works Specify Finish by Affixing Symbols to Numbers.
A—Standard Light Bronze.
D2—Copper Oxidized, Light Mottled.
SF4—Dull Brass, Slightly Oxidized, Sanded.
N—Nickel Plated.
F—Dull Brass.

C—Brass Plated.
G—Bower Barff.
J—Japanned.
H—Dead Black, Electro-Plate.
R—Galvanized.

COMPARATIVE SYMBOLS OF LEADING HARDWARE MANUFACTURERS

| Joseph Woodwell Co. | P. & F. Corbin | Stanley Works | Russell & Erwin | Yale & Towne | Sager Lock Co. | Sargent & Co. | Reading Hardware Co | U. S. Standard |
|---------------------|----------------|---------------|-----------------|--------------|----------------|---------------|---------------------|----------------|
| B or N | B or N | A | 11 | BZ10 | A20 | P | 1 | US 9 |
| HB | HB | B8 | 2 | BY65 | D29 | A | 221 | US20 |
| SHB | SHB | SB8 | 02 | ..... | S29 | RA | 223 | US21 |
| E | E | N | 4 | NZ10 | A50 | N | 80 | US14 |
| DE | DE | N5 | 14 | NY10 | D50 | LN | 77 | US15 |
| HPE | HPE | ..... | 6 1/2 | NX56 | ..... | HF | ..... | U. S. Special |
| R | R | D2 | 7 1/2 | CZ19 | A42 | AB | 24 | US8 |
| A | A | C | 10 | AZ10 | A30 | B | 31 | US3 |
| EA | EA | F | 9 | AY22 | D30 | OB | 37 | US4 |
| KA | KA | F4 | 9C | AY21 | D31 | OE | 371 | US5 |
| SKA | SKA | SF4 | 09C | AX28 | S31 | RD | 331 | US6 |
| 2A | 2A | ..... | 09B | ..... | HS31 | R7D | 333 | US7 |
| TY | TY | ..... | K | ..... | 011 | T | 10 | ..... |
| F | F | G | 46 | FX80 | 17 | BB | 087 | US18 |
| KF | KF | H | 06 | FX90 | 18 | BN | 087 1/2 | US19 |
| G | G | R | G | ..... | 012 | ..... | GL | US2 |
| J | J | J | J | ..... | 010 | ..... | J | US1B |

OPERATION OF LOCKS

Unit Front Door Locks

Operated—Latch bolt by knob from either side, both bolts by key from the outside at all times. Stop in face locks the outside knob. Dead bolt is locked from inside by thumb knob.

Unit Vestibule Door Locks

Operated—By knob from either side and by key from the outside at all times. Stop in face locks the outside knob.

Cylinder Front Door Locks

Operated—Latch bolt by knob from either side, both bolts by key from the outside at all times; dead bolt by thumb knob from the inside. Outside knob is locked by stop in face, one key operates both bolts.

Cylinder Vestibule Door Locks

Operated—By knob from either side and by key from the outside at all times. Outside knob is locked by stop in face.

Bitted Key Front Door Locks

Operated—Latch bolt by knob from either side. Outside knob is locked by stop in face. Dead bolt by key from inside, and both bolts by key from outside at all times.

Bitted Key Vestibule Door Locks

Operated—By knob from either side and by key from the outside at all times. Outside knob is locked by stop in face.

Sliding Door Locks

Operated—By key and flush cup escutcheons from either side.

Rim Knob Locks

Operated—By knob and Key from either side.

Rim Knob Latches

Operated—By knob from either side. Thumb bolt by slide from inside.

Rim Night Latches

Operated—By key from outside and by thumb from inside. Latch bolt is fastened back by stop in face, or in some cases by turning thumb knob.

Rim Dead Locks

Operated by key from outside and by thumb knob from inside; in some cases keys from both sides.

Mortise Knob Locks

Operated—By knob and key from either side.

Mortise Knob Latches

Operated—By knob from either side.

Mortise Night Latches

Operated—By key from outside and by knob from inside. Latch bolt is fastened back by stop in face.

Mortise Dead Locks

Operated—By key from either side; in some cases thumb knob from inside.

Store Door Locks

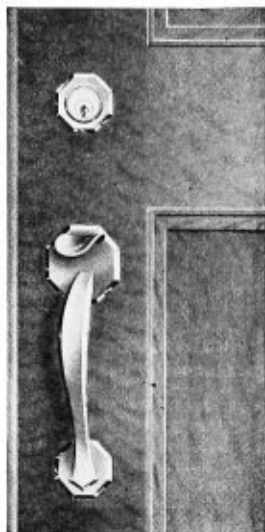
Operated—Latch bolt by thumb piece from either side; dead bolt by key from either side.

SECTIONAL FRONT DOOR HANDLE SETS

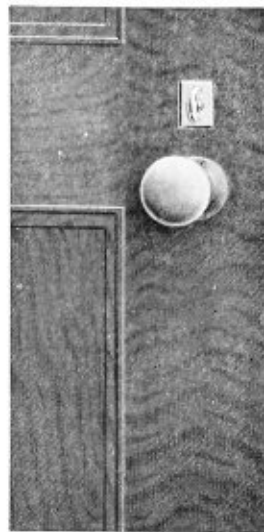
Handle on Outside, Knob, Rose, and Thumb Piece on Inside, with Lock



Cut shows No. 1349 1/2 Lock applied to door, with sectional type door handle for outside and knob and escutcheon on inside.



Outside of Door.



Inside of Door.

Either a knob or escutcheon or a knob and rose with a separate thumb turn can be used.

BALL BEARING CYLINDER LOCKS

ST. IVES DESIGN

Cast Bronze

Per Set

No. HPE850880xEA240 1/2
—Imitation Half Polished Iron Outside and Dull Brass, Natural Color Inside \$18.10

Lock—No. 1349 1/2, 5 1/4 x 3 3/8 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/4 in. Cast Bronze Front, Cast Bronze Bolts, Reversible, Cast Bronze Thumb Knob, Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Outside and Knob from Inside Except when Outside Thumb Piece is Set by Stop in Face of Lock. Dead Bolt by Thumb Knob from Inside and Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

Handle—One No. 85084, Size 10 3/8 x 2 3/8 in., 3x3 in. Cylinder Collar, for Outside.

Knob—One No. 240 1/2, Octagon Pressed Glass, Size 2 1/4 in., Cast Bronze Rose, for Inside.

Thumb Knob—One No. 2145, with 1 5/8 x 1 1/8 in. Plate, for Inside.

Weight Per Set 6 Pounds.

One Set in a Box, with Screws.



STOCKTON DESIGN

Cast Bronze

Per Set

No. SHB942880xEA240 1/2
—Statuary Bronze, Light, Sanded Outside and Dull Brass, Natural Color Inside \$21.75

Lock—No. 1349 1/2, 5 1/4 x 3 3/8 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/4 in. Cast Bronze Front, Cast Bronze Bolts, Reversible, Cast Bronze Thumb Knob, Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Outside and Knob from Inside. Except when Outside Thumb Piece is Set by Stop in Face of Lock. Dead Bolt by Thumb Knob from Inside, and Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

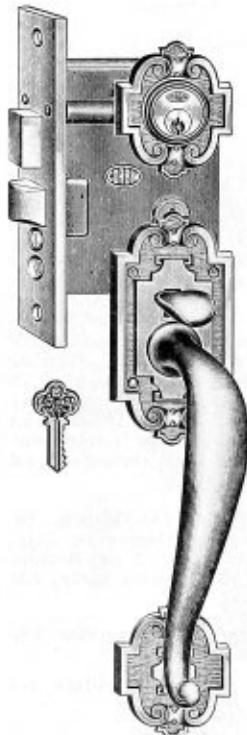
Handle—One No. 94284, 7 1/2 in. from Center to Center of Grip, 5 3/4 x 2 3/4 in. Top Plate, 3 1/2 x 2 1/2 in. Bottom Plate and Cylinder Collar, for Outside.

Knob—One No. 240 1/2, Octagon Pressed Glass, Size 2 1/4 in., Cast Bronze Rose, for Inside.

Thumb Knob—One No. 2145, with 1 5/8 x 1 1/8 in. Plate, for Inside.

Weight Per Set 7 1/2 Pounds.

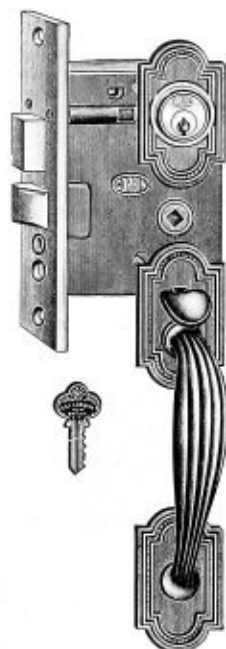
One Set in a Box, with Screws.



SECTIONAL FRONT DOOR HANDLE SETS

Handle on Outside, Knob, Rose and Thumb Piece on Inside, with Lock

BALL BEARING CYLINDER LOCKS



Cast Bronze

Per Set

No. KA974880xEA240 1/2 — Dull Brass, Oxidized and Relieved Outside and Dull Brass, Natural Color Inside.....\$17.20

Lock—No. 1349 1/2, 5 1/4 x 3 3/8 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/4 in. Cast Bronze Front, Cast Bronze Bolts, Reversible, Cast Bronze Thumb Knob, Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Outside and Knob from Inside Except when Outside Thumb Piece is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside and Both Dead Bolt and Latch Bolt by Same Key from Outside at all Times.

Handle—One No. 97484, 5 3/4 in. from Center to Center of Grip, 3 1/2 x 2 in. Top Plate, Bottom Plate and Cylinder Collar for Outside.

Knob—One No. 240 1/2, Octagon Pressed Glass, Size 2 1/4 in., Cast Bronze Rose, for Inside.

Thumb Knob—One No. 2145, with 1 3/8 x 1 1/8 in. Plate, for Inside.

Weight Per Set 6 Pounds.

One Set in a Box, with Screws.



Cast Bronze

Per Set

No. KA785880xEA240 1/2 — Dull Brass, Oxidized and Relieved Outside and Dull Brass, Natural Color Inside.....\$17.20

Lock—No. 1349 1/2, 5 1/4 x 3 3/8 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/4 in. Cast Bronze Front, Cast Bronze Bolts, Reversible, Cast Bronze Thumb Knob, Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Outside and Knob from Inside Except when Outside Thumb Piece is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside and Both Dead Bolt and Latch Bolt by Same Key from Outside at all Times.

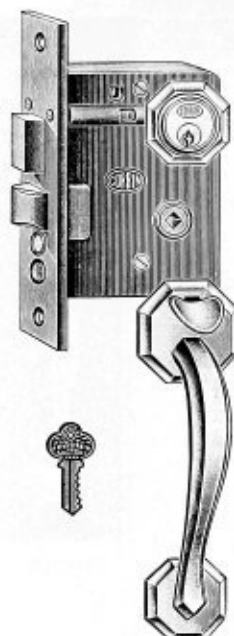
Handle—One No. 78584, 5 3/4 in. from Center to Center of Grip, 2 1/2 in. Top Plate, 2 in. Bottom Plate, 2 1/2 in. Cylinder Collar for Outside.

Knob—One No. 240 1/2, Octagon Pressed Glass, Size 2 1/4 in., Cast Bronze Rose, for Inside.

Thumb Knob—One No. 2145, with 1 3/8 x 1 1/8 in. Plate, for Inside.

Weight Per Set 6 Pounds.

One Set in a Box, with Screws.



Cast Bronze

Per Set

No. EA755880xEA1419PY—Dull Brass, Natural Color....\$17.20

Lock—No. 1349 1/2, 5 1/4 x 3 3/8 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/4 in. Cast Bronze Front, Cast Bronze Bolts, Reversible, Cast Bronze Thumb Knob, Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Outside and Knob from Inside Except when Outside Thumb Piece is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside and Both Dead Bolt and Latch Bolt by Same Key from Outside at all Times.

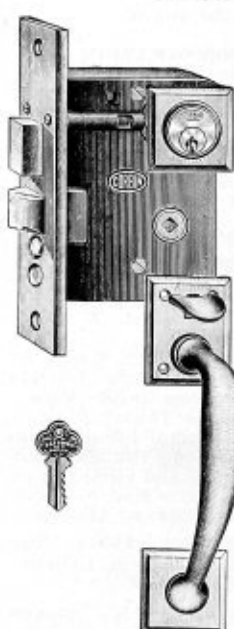
Handle—One No. 75584, 6 3/4 in. from Center to Center of Grip, 2 3/4 x 2 3/4 in. Top Plate, 2 1/4 x 2 1/4 in. Bottom Plate and Cylinder Collar, for Outside.

Knob—One No. 1419PY, Wrought Bronze, Size 2 1/4 in., Wrought Bronze Rose, for Inside.

Thumb Knob—One No. 2145, with 1 3/8 x 1 1/8 in. Plate, for Inside.

Weight Per Set 5 3/4 Pounds.

One Set in a Box, with Screws.



Cast Bronze

Per Set

No. EA753878xEA1419PY—Dull Brass, Natural Color....\$16.65

Lock—No. 1349 1/2, 5 1/4 x 3 3/8 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/4 in. Cast Bronze Front, Cast Bronze Bolts, Reversible, Cast Bronze Thumb Knob, Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Outside and Knob from Inside Except when Outside Thumb Piece is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside, and Both Dead Bolt and Latch Bolt by Same Key from Outside at all Times.

Handle—One No. 75382, 5 3/4 in. from Center to Center of Grip, 2 1/2 x 2 in. Top Plate, 2 x 2 in. Bottom Plate and Cylinder Collar, for Outside.

Knob—One No. 1419PY, Wrought Bronze, Size 2 1/4 in., Wrought Bronze Rose, for Inside.

Thumb Knob—One No. 2145, with 1 3/8 x 1 1/8 in. Plate, for Inside.

Weight Per Set 5 3/4 Pounds.

One Set in a Box, with Screws.

SECTIONAL STORE DOOR HANDLE SETS

Two Handles, One for Each Side of Door, with Lock

BALL BEARING CYLINDER LOCKS

Cast Bronze

Per Set

No. SHB942994—Statuary
Bronze, Light, Sanded. \$30.90

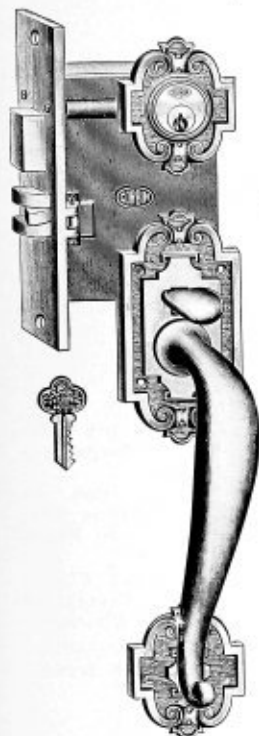
Lock—No. 0288, 5x3 3/4 in. Japan-
ned Iron Case, 2 3/4 in. Backset,
7 3/8 x 1 1/8 in. Cast Bronze Front,
Cast Bronze Bolts, Anti-Friction
Latch Bolt, Reversible, 2 Cast
Bronze Cylinders, Changes Un-
limited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb
Piece from Either Side, Dead
Bolt by Key from Either Side.

Handles—Two No. 94284, 7 1/2 in.
from Center to Center of Grips,
5 3/8 x 2 3/4 in. Top Plates, 3 1/8 x
2 1/2 in. Bottom Plates and Cyl-
inder Collars.

Weight Per Set 10 Pounds.

One Set in a Box, with Screws.



Cast Bronze

Per Set

No. KA901994—Dull Brass,
Oxidized and Relieved. \$30.00

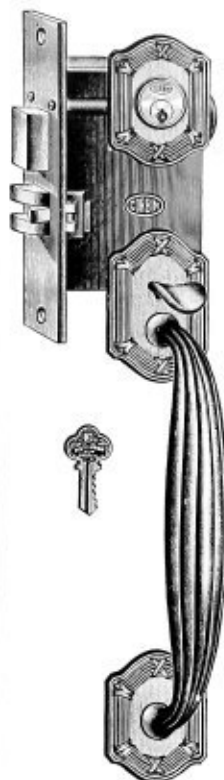
Lock—No. 0288, 5x3 3/4 in. Japan-
ned Iron Case, 2 3/4 in. Backset,
7 3/8 x 1 1/8 in. Cast Bronze Front,
Cast Bronze Bolts, Anti-Friction
Latch Bolt, Reversible, 2 Cast
Bronze Cylinders, Changes Un-
limited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb
Piece from Either Side, Dead
Bolt by Key from Either Side.

Handles—Two No. 90184, 9 in.
from Center to Center of Grips,
3 1/2 x 2 1/2 in. Top Plates, 3x2 1/2
in. Bottom Plates and Cylinder
Collars.

Weight Per Set 9 1/2 Pounds.

One Set in a Box, with Screws.



Cast Bronze

Per Set

No. EA753994—Dull Brass,
Natural Color. \$26.65

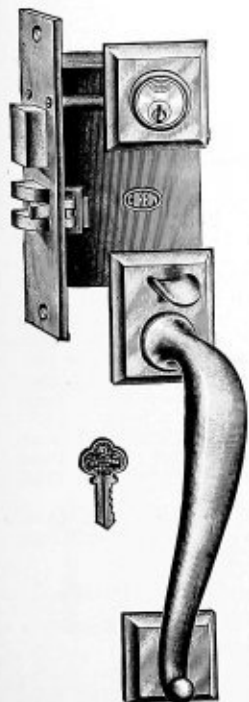
Lock—No. 0288, 5x3 3/4 in. Japan-
ned Iron Case, 2 3/4 in. Backset,
7 3/8 x 1 1/8 in. Cast Bronze Front,
Cast Bronze Bolts, Anti-Friction
Latch Bolts, Reversible, 2 Cast
Bronze Cylinders, Changes Un-
limited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb
Piece from Either Side, Dead
Bolt by Key from Either Side.

Handles—Two No. 75384, 7 1/2 in.
from Center to Center of Grips,
3x2 1/4 in. Top Plates, 2x2 in.
Bottom Plates, 2 1/4 x 2 1/4 in. Cyl-
inder Collars.

Weight Per Set 8 3/4 Pounds.

One Set in a Box, with Screws.



Cast Bronze

Per Set

No. KA785994—Dull Brass,
Oxidized and Relieved. \$22.20

Lock—No. 0288, 5x3 3/4 in. Japan-
ned Iron Case, 2 3/4 in. Backset,
7 3/8 x 1 1/8 in. Cast Bronze Front,
Cast Bronze Bolts, Anti-Friction
Latch Bolt, Reversible, 2 Cast
Bronze Cylinders, Changes Un-
limited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb
Piece from Either Side, Dead
Bolt by Key from Either Side.

Handles—Two No. 78584, 5 3/4 in.
from Center to Center of Grips,
2 1/2 in. Top Plate, 2 in. Bottom
Plate, 2 1/2 in. Cylinder Collar.

Weight Per Set 7 1/4 Pounds.

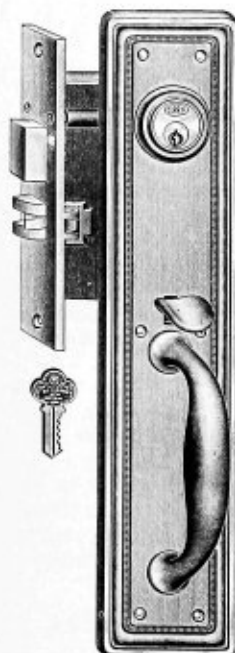
One Set in a Box, with Screws.



STORE DOOR HANDLE SETS

Two Handles, One for Each Side of Door, with Lock

BALL BEARING CYLINDER LOCKS



Wrought Bronze

Per Set

No. 2A725990—Sanded Brass, Oxidized and Relieved, High Lights Polished.....\$18.35

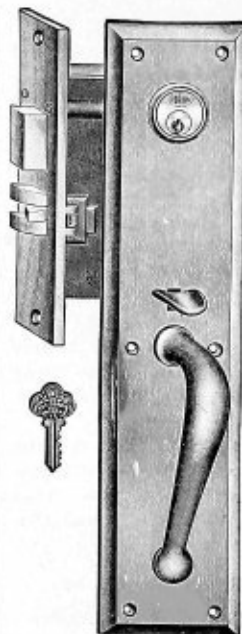
Lock—No. 0288, 5x3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Anti-Friction Latch Bolt, Reversible, 2 Cast Bronze Cylinders, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Handles—Two No. 72580, 5 1/4 in. from Center to Center of Grips, 15x3 1/4 in. Plates.

Weight Per Set 8 1/4 Pounds.

One Set in a Box, with Screws.



Wrought Bronze

Per Set

No. B702991—Polished Bronze.....\$17.20

No. R702991—Antique Copper, Polished..... 17.20

No. EA702991—Dull Brass, Natural Color..... 17.20

No. SKA702991—Sanded Brass, Oxidized and Relieved..... 17.75

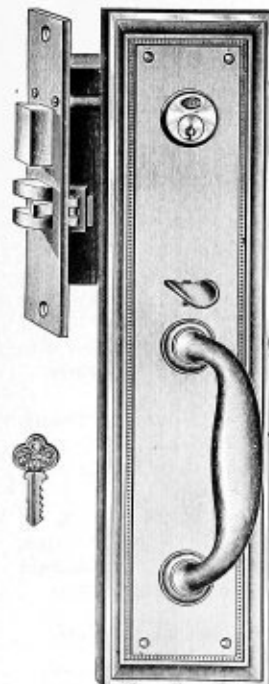
Lock—No. 0288, 5x3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Anti-Friction Latch Bolt, Reversible, 2 Cast Bronze Cylinders, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Handles—Two No. 70281, 5 1/4 in. from Center to Center of Grips, 14 1/2 x 3 1/8 in. Plates.

Weight Per Set 7 1/2 Pounds.

One Set in a Box, with Screws.



Cast Bronze

Per Set

No. KA779990—Dull Brass, Oxidized and Relieved...\$31.00

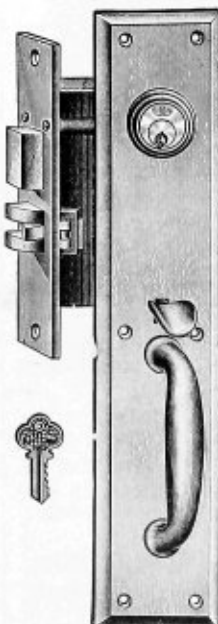
Lock—No. 0288, 5x3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Anti-Friction Latch Bolt, Reversible, 2 Cast Bronze Cylinders, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Handles—Two No. 77980, 5 1/4 in. from Center to Center of Grips, 16x4 in. Plate.

Weight Per Set 10 Pounds.

One Set in a Box, with Screws.



Cast Bronze

Per Set

No. B302990—Polished Bronze.....\$25.55

Lock—No. 0288, 5x3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/8 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Anti-Friction Latch Bolt, Reversible, 2 Cast Bronze Cylinders, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Handles—Two No. 30282, 5 1/4 in. from Center to Center of Grips, 15x3 in. Plates.

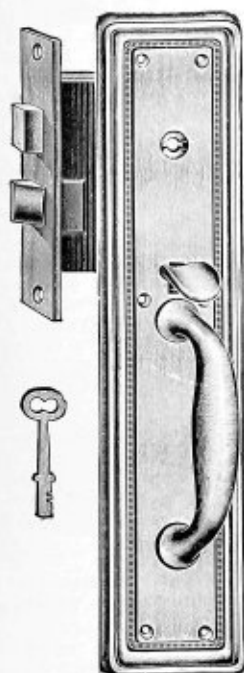
Weight Per Set 9 1/4 Pounds.

One Set in a Box, with Screws.

STORE DOOR HANDLE SETS

Two Handles, One for Each Side of Door, with Lock

BIT KEYED LOCKS



Wrought Bronze

Per Set
No. 2A725952—Sanded Brass,
 Oxidized and Relieved,
 High Lights Buffed....\$11.75

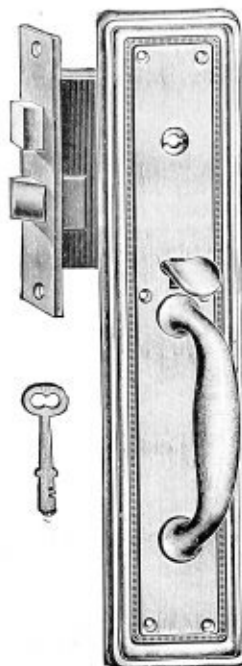
Lock—No. 0186 1/2, 4 1/2 x 3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 6 1/2 x 1 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 4 Tumblers, 36 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Handles—Two No. 72580, 5 1/4 in. from Center to Center of Grips, 15 x 3 1/4 in. Plates.

Weight Per Set 6 1/2 Pounds.

One Set in a Box, with Screws.



Wrought Steel

Per Set
No. 2A625932—Sanded Brass, Oxidized and Relieved, High Lights Polished\$7.50

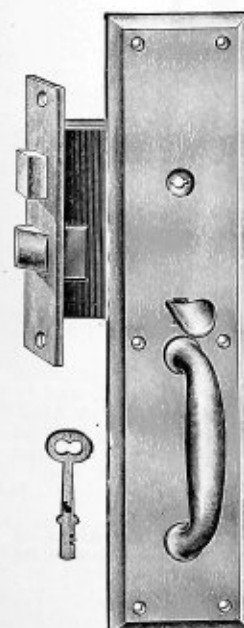
Lock—No. 0386 1/2, 4 1/2 x 3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 6 1/2 x 1 in. Cast Iron Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 4 Tumblers, 36 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Handles—Two No. 62580, 5 1/4 in. from Center to Center of Grips, 15 x 3 1/4 in. Plates.

Weight Per Set 6 1/2 Pounds.

One Set in a Box, with Screws.



Wrought Bronze

Per Set
No. R702952—Antique Copper, Polished\$10.55
No. EA702952—Dull Brass, Natural Color 10.55

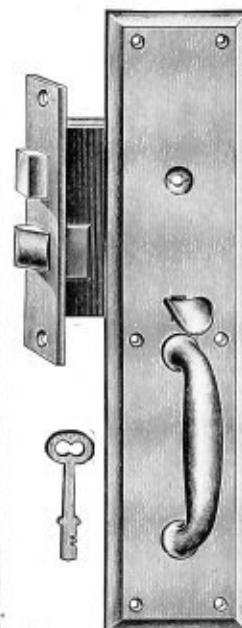
Lock—No. 0186 1/2, 4 1/2 x 3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 6 1/2 x 1 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 4 Tumblers, 36 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Handles—Two No. 70280, 4 3/4 in. from Center to Center of Grips, 14 1/2 x 3 1/2 in. Plates.

Weight Per Set 5 1/2 Pounds.

One Set in a Box, with Screws.



Wrought Steel

Per Set
No. R602932—Antique Copper, Polished.....\$6.35
No. EA602932—Dull Brass, Natural Color..... 6.35

Lock—No. 0386 1/2, 4 1/2 x 3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 6 1/2 x 1 in. Cast Iron Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 4 Tumblers, 36 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Handles—Two No. 60280, 4 3/4 in. from Center to Center of Grips, 14 1/2 x 3 1/2 in. Plates.

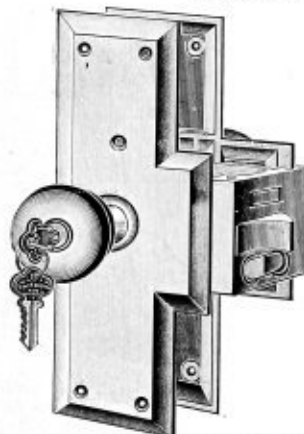
Weight Per Set 5 1/2 Pounds.

One Set in a Box, with Screws.

*CORBIN UNIT LOCK SETS

The Corbin Unit Lock is assembled at the factory in one piece, with knobs and escutcheons attached. It is shipped as a unit and applied to the door as a unit. In this way the fine and accurate adjustments of the skilled lock-makers are never disturbed. The fact that the adjustments are undisturbed makes it possible to introduce features which otherwise could not be adopted. The result is a superior type of mechanism, a smoothness of action, a freedom from trouble, and a degree of security which place these locks in a separate and distinct class which has never been equalled.

The method of attaching is one of the most evident of the advantages obtained through the form of the Unit Lock. There is no mortise made in the door, but a piece is cut out of the edge of the door of the exact size of the lock case. The lock is then slipped into place just as it comes from the box, the adjusting screw is then tightened, bringing the escutcheons in close contact with the sides of the door. The escutcheons are then screwed to the sides of the door and the job is completed.

OAKLAND DESIGN
FRONT DOOR SETS

Cast Bronze Per Set
No. EA742872½ — Dull
Brass, Natural Color. \$38.00

No. SKA742872½ — Sanded
Brass, Oxidized and
Relieved 39.34

Lock—No. 2445, 2½ x 3¼ x
1½ in. Case, 3 in. Backset,
Cast Bronze Front Beveled
½ in. in 2 inches,
Cast Bronze Bolts, Not
Reversible, Cast Bronze
Protected Box Strike and
Frame, 1 Bronze Ball
Bearing Cylinder, Changes
Unlimited, 3 Nickel Silver
Keys.

Operated—Latch Bolt by Knob from Either Side Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside and Both Dead Bolt and Latch Bolt by Same Key from Outside at all Times.

Knobs—Two, Size 2¼ in.

Escutcheons—Two, Size 10x3 in.

Note—When ordering, State Hand and Thickness of door, and if Reverse Bevel for doors opening out is wanted.

Weight Per Set 6½ Pounds.

One Set in a Box, with Screws.

OFFICE DOOR SETS



Cast Bronze Per Set

No. EA742588 — Dull Brass, Natural Color. \$28.67

No. SKA742588 — Sanded Brass, Oxidized and Relieved 30.00

Lock—No. 2467, 2x3¼ x 1½ in. Case, 3 in. Backset, Cast Bronze Front Beveled ½ in. in 2 inches, Cast Bronze Bolt, Not Reversible, Cast Bronze Box Strike and Frame, 1 Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—By Knob from Either Side, Except when Outside Knob is Set by Knurled Ring on Inside Knob Shank, and by Key from Outside at all Times.

Knobs—Two, Size 2¼ in.

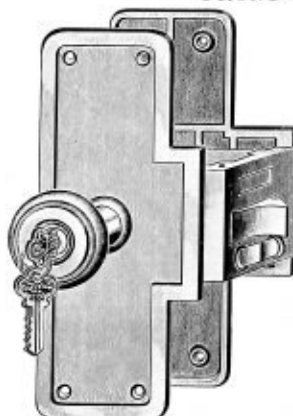
Escutcheons—Two, Size 4x5 in.

Note—When ordering, State Hand and Thickness of door, and if Reverse Bevel for doors opening out is wanted.

Weight Per Set 5½ Pounds.

One Set in a Box, with Screws.

*Not Carried in Stock, but Shipped Direct from Factory.

WOODSTOCK DESIGN
FRONT DOOR SETS

Cast Bronze Per Set
No. SKA783872½ — Sanded
Brass, Oxidized and
Relieved \$39.35

No. HB783872½ — Statuary
Bronze, Light. . . 38.80

Lock—No. 2445, 2½ x 3¼ x
1½ in. Case, 3 in. Backset,
Cast Bronze Front Beveled
½ in. in 2 inches, Cast
Bronze Bolts, Not Reversible,
Cast Bronze Protected
Box Strike and Frame, 1
Bronze Ball Bearing Cylinder,
Changes Unlimited, 3
Nickel Silver Keys.

Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside, and Both Dead Bolt and Latch Bolt by Same Key from Outside at all Times.

Knobs—Two, Size 2¼ in.

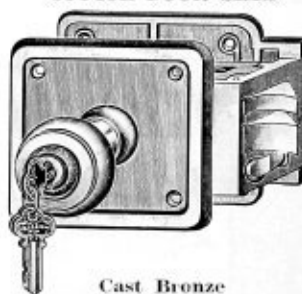
Escutcheons—Two, Size 9x3 in.

Note—When ordering, State Hand and Thickness of door, and if Reverse Bevel for doors opening out is wanted.

Weight Per Set 6¼ Pounds.

One Set in a Box, with Screws.

OFFICE DOOR SETS



Cast Bronze Per Set

No. SKA783564 — Sanded Brass, Oxidized and Relieved \$38.00

No. HB783564 — Statuary Bronze, Light. 36.63

Lock—No. 02464, 2½ x 3¼ x 1½ in. Case, 3 in. Backset, Cast Bronze Front Beveled ½ in. in 2 inches, Cast Bronze Bolts, Not Reversible, Cast Bronze Box Strike and Frame, 1 Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—By Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, and by Key from Outside at all Times. Auxiliary Latch Automatically Locks Latch Bolt and Stop so they Cannot be Forced Back when the Door is Closed, but Does not Prevent Key or Knobs from Operating Latch Bolt.

Knobs—Two, Size 2¼ in.

Escutcheons—Two, Size 4½ x 4¼ in.

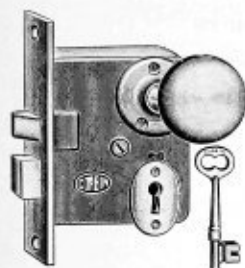
Note—When ordering, State Hand and Thickness of door, and if Reverse Bevel for doors opening out is wanted.

Weight Per Set 5½ Pounds.

One Set in a Box, with Screws.

SECTIONAL INSIDE LOCK SETS

WITH METAL KNOBS



Wrought Bronze Mountings

Per Set
No. EA704144—Dull Brass,
Natural Color\$2.44

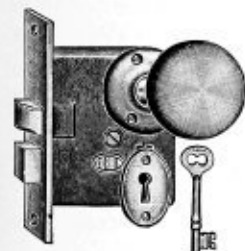
Lock—No. 785, $3\frac{5}{8} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{16}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 1420, Size 2 in., $\frac{5}{16}$ in. Straight Spindle.

Escutcheons—Two No. 2560, Size $1\frac{5}{8} \times 1\frac{1}{8}$ in.

Weight Per Set 2 Pounds.

One Set in a Box, with Screws.



Wrought Bronze Mountings

Per Set
No. EA704146—Dull Brass,
Natural Color\$2.44

Lock—No. 785, $3\frac{5}{8} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{16}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

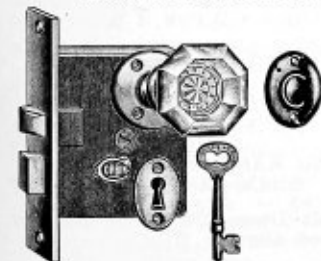
Knobs—Two No. 1419 $\frac{1}{2}$, Size $2\frac{1}{4}$ in., $\frac{5}{16}$ in. Straight Spindle.

Escutcheons—Two No. 2560, Size $1\frac{5}{8} \times 1\frac{1}{8}$ in.

Weight Per Set 2 Pounds.

One Set in a Box, with Screws.

WITH GLASS KNOB AND CLOSET SPINDLE



Wrought Bronze Mountings

Per Set
No. EA055160—Dull
Brass, Natural Col-
or\$2.65

No. E055160—Nickel
Plated, Polished.. 2.80

Lock—No. 785, $3\frac{5}{8} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{16}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knob—One No. 340 $\frac{1}{2}$, Pressed Glass, Size $2\frac{1}{4}$ in.

Escutcheon—One No. 2560, Size $1\frac{5}{8} \times 1\frac{1}{8}$ in.

Closet Spindle—One No. 44 $\frac{1}{4}$, Thumb Piece and Rose, $\frac{1}{8}$ in. Straight Threaded Spindle.

Weight Per Set $2\frac{1}{4}$ Pounds.

One Set in a Box, with Screws.

WITH GLASS KNOBS



Wrought Bronze Mountings

Per Set
No. EA055038—Dull Brass,
Natural Color\$2.10

Lock—No. 13271, $3\frac{5}{8} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{16}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Wrought Steel Front, Brass Plated Cast Iron Bolts, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

No. EA055156—Dull Brass, Natural Color.....\$3.00

Lock—No. 785, $3\frac{5}{8} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{16}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 340 $\frac{1}{2}$, Pressed Glass, Size $2\frac{1}{4}$ in., $\frac{5}{16}$ in. Straight Threaded Spindle.

Escutcheons—Two No. 2560, Size $1\frac{5}{8} \times 1\frac{1}{8}$ in.

Weight Per Set $2\frac{1}{2}$ Pounds.

One Set in a Box, with Screws.



Cast Bronze Mountings

Per Set
No. EA075156—Dull Brass,
Natural Color\$3.55

Lock—No. 785, $3\frac{5}{8} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{16}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 240 $\frac{1}{2}$, Pressed Glass, Size $2\frac{1}{4}$ in., $\frac{5}{16}$ in. Straight Threaded Spindle.

Escutcheons—Two No. 2660, Size $1\frac{5}{8} \times 1\frac{1}{8}$ in.

Weight Per Set $2\frac{3}{4}$ Pounds.

One Set in a Box, with Screws.

GLASS KNOB BATH ROOM SETS



Only Inside Trim is furnished with Bathroom Lock Sets. Any Knob and Escutcheon may be used for Outside.

Wrought Bronze Mountings

Per Set
No. E055436—Nickel Plated,
Polished\$3.00

Lock—No. 159, $3\frac{5}{8} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{16}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, Operated—Latch Bolt by Knob from Either Side, Dead Bolt by Thumb Knob from Inside Only.

Knob—One No. 340 $\frac{1}{2}$, Pressed Glass, Size $2\frac{1}{4}$ in., $\frac{5}{16}$ in. Straight Threaded Spindle.

Thumb Knob—No. 2145, $1\frac{5}{8} \times 1\frac{1}{8}$ in. Plate.

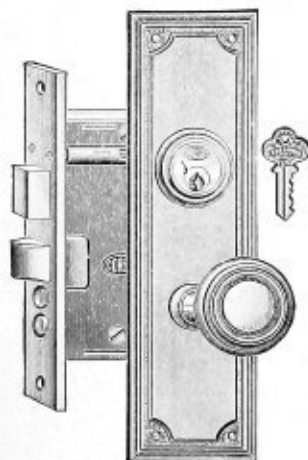
Weight Per Set 2 Pounds.

One Set in a Box, with Screws.

VICTOR DESIGN

Wrought Bronze and Wrought Steel

CYLINDER FRONT DOOR SETS



Wrought Bronze
Per Set
No. KA710842—Dull Brass, Oxidized and Relieved.....\$12.80

Lock—No. 1343, 5 3/8 x 3 1/2 in. Japanned Iron Case, 2 3/4 in. Backset, 7 7/8 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts Easy Spring Latch Bolt, Reversible, 1 Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

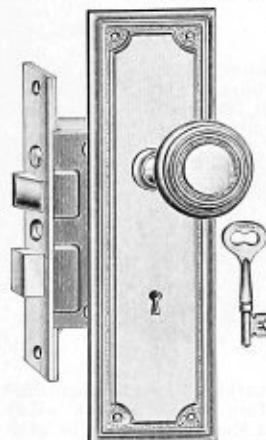
Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

Knobs—Two No. 71022, Size 2 1/4 in., 3/8 in. Swivel Spindle.

Escutcheons—Outside No. 71029, Size 10 1/2 x 3 in.; Inside No. 71031, Size 7 1/4 x 2 3/8 in.

Weight Per Set 4 3/4 Pounds.
One Set in a Box, with Screws.

BIT KEYED FRONT DOOR SETS



Wrought Bronze
Per Set
No. KA710822—Dull Brass, Oxidized and Relieved...\$5.80

Lock—No. 1251, 4 5/8 x 3 1/2 in. Japanned Iron Case, 2 1/2 in. Backset, 7 x 1 in. Wrought Bronze Front, Bronze Bolts, Easy Spring Latch Bolt, Reversible, 2 Tumblers, 48 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Key from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

Knobs—Two No. 71022, Size 2 1/4 in., 3/8 in. Swivel Spindle.
Escutcheons—Outside No. 71029, Size 10 1/2 x 3 in.; Inside No. 71031, Size 7 1/4 x 2 3/8 in.

Wrought Steel

Per Set
No. KA610806 1/2—Dull Brass, Oxidized and Relieved.....\$3.30

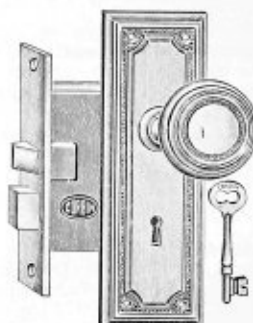
Lock—No. 3251, Plated Wrought Steel Front, Brass Plated Iron Bolts, Otherwise Same as Lock No. 1251 Described Above.

Knobs—Two No. 61022 1/2, Two-Piece, Size 2 1/4 in., 3/8 in. Swivel Spindle.

Escutcheons—Outside No. 61029, Size 10 1/2 x 3 in.; Inside No. 61031, Size 7 1/4 x 2 3/8 in.

Weight Per Set 3 1/2 Pounds.
One Set in a Box, with Screws.

INSIDE DOOR SETS



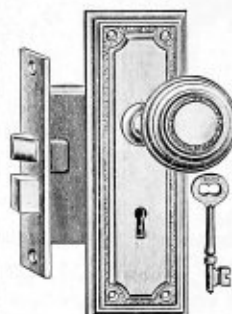
Wrought Bronze
Per Set
No. KA710156—Dull Brass, Oxidized and Relieved...\$3.35

Lock—No. 785, 3 3/8 x 3 1/4 in. Japanned Iron Case, 2 3/8 in. Backset, 5 1/2 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 71022, Size 2 1/4 in., 3/8 in. Straight Spindle.

Escutcheons—Two No. 71031, Size 7 1/4 x 2 3/8 in.

Weight Per Set 2 1/4 Pounds.
One Set in a Box, with Screws.



Wrought Steel
Per Dozen Sets
No. KA610048 1/2—Dull Brass, Oxidized and Relieved...\$13.90

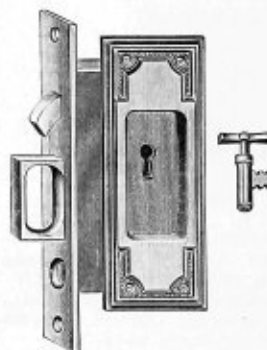
Lock—No. 13271, 3 3/8 x 3 1/4 in. Japanned Iron Case, 2 3/8 in. Backset, 5 1/4 x 1 1/8 in. Wrought Steel Front, Brass Plated Cast Iron Bolts, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 61022 1/2, Size 2 1/4 in., 3/8 in. Straight Spindle.

Escutcheons—Two No. 61031, Size 7 1/4 x 2 3/8 in.

Weight Per Set 2 Pounds.
One Set in a Box, with Screws.

SLIDING DOOR SETS

Wrought Steel

For Single Doors
Per Set

No. KA610306—Dull Brass, Oxidized and Relieved...\$3.55

Lock—No. 13092, 5 1/4 x 4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 7/8 x 1 1/8 in. Wrought Steel Front, Cast Bronze Bolt and Pull, 1 Bronze Key.

Escutcheons—Two No. 61034, Size 6 1/4 x 2 1/4 in.

Weight Per Set 2 1/4 Pounds.

For Double Doors

Per Set
No. KA610308—Dull Brass, Oxidized and Relieved...\$5.55

Lock—No. 13100, for Double Doors, Otherwise Same as Lock No. 13092 Described Above.

Escutcheons—Four No. 61034, Size 6 1/4 x 2 1/4 in.

Weight Per Set 3 3/4 Pounds.

One Set in a Box, with Screws.

ELECTRIC PUSH BUTTONS

Wrought Bronze

Size 3 1/2 x 1 1/2 in. Each

No. KA71061—Dull Brass, Oxidized and Relieved.....\$1.31

Weight Per Box 3/8 Pound.

Three in a Box, with Screws.



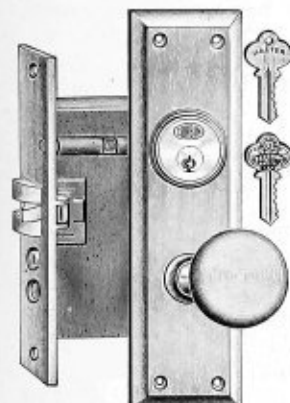
PORTLAND DESIGN

Wrought Bronze and Wrought Steel

CYLINDER OFFICE DOOR SETS

Wrought Bronze

Per Set
 No. EA702526 — Dull
 Brass, Natural Col-
 or \$13.00
 Lock—No. 567, 5 3/8 x 4 in. Ja-
 panned Iron Case, 3 in.
 Backset, 7 1/4 x 1 1/4 in. Cast
 Bronze Front, Beveled 1/2
 in. in 2 inches, Cast Bronze
 Anti-friction Latch Bolt,
 Not Reversible, 1 Cast
 Bronze Ball Bearing Cylin-
 der, Changes Unlimited, 3
 Nickel Silver Keys.
 Operated—By Knob from
 Either Side Except when
 Outside Knob is Set by Stop
 in Face of Lock, and by
 Key from Outside at All
 Times.



Master Keyed in Sets as Desired with Other Corbin Master
 Keyed Cylinder Locks.

Knobs—Two No. 1419 1/2 PW, Size 2 1/4 in., 3/8 in. Swivel
 Spindle.

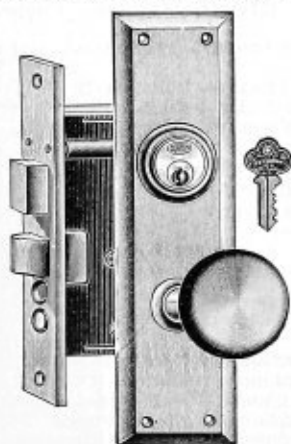
Escutcheons—Two No. 70230, Size 9x2 1/2 in.

Note—When Ordering, State Hand and Thickness of
 Door.

Weight Per Set 4 3/4 Pounds.

One Set in a Box, with Screws.

CYLINDER FRONT DOOR SETS



Wrought Bronze

Per Set
 No. R702842—Antique Copper, Polished..... \$12.00
 No. EA702842—Dull Brass, Natural Color..... 12.00

Lock—No. 1343, 5 3/8 x 3 3/8 in. Japanned Iron Case, 2 3/4 in.
 Backset, 7 3/8 x 1 1/8 in., Cast Bronze Front, Cast Bronze
 Bolts, Easy Spring Latch Bolt, Reversible, 1 Cast
 Bronze Ball Bearing Cylinder, Changes Unlimited, 3
 Nickel Silver Keys.

Operated—Latch Bolt by Knob from Either Side, Ex-
 cept when Outside Knob is Set by Stop in Face of
 Lock, Dead Bolt by Thumb Knob from Inside, Both
 Dead Bolt and Latch Bolt by Same Key from Outside
 at All Times.

Knobs—Two No. 1419 1/2 PW, Size 2 1/4 in., 3/8 in. Swivel
 Spindle.

Escutcheons—Outside No. 70229, Size 10x2 3/4 in.; Inside
 No. 70231, Size 7x2 1/4 in.

Weight Per Set 4 3/4 Pounds.

One Set in a Box, with Screws.

CYLINDER VESTIBULE DOOR SETS

Wrought Bronze

Per Set
 No. R702742—Antique
 Copper, Polished... \$10.90
 No. EA702742 — Dull
 Brass, Natural Col-
 or 10.90

Lock—No. 1323, 4 1/4 x 3 3/4 in.
 Japanned Iron Case, 2 3/4 in.
 Backset, 6 1/4 x 1 1/8 in. Cast
 Bronze Front, Cast Bronze
 Easy Spring Latch Bolt, Re-
 versible, 1 Cast Bronze
 Ball Bearing Cylinder,
 Changes Unlimited, 3 Nick-
 el Silver Keys.

Operated—By Knob from
 Either Side, Except when
 Outside Knob is Set by Stop
 in Face of Lock, and by Key
 from Outside at All Times.



Knobs—Two No. 1419 1/2 PW, Size 2 1/4 in., 3/8 in. Swivel
 Spindle.

Escutcheons—Two No. 70230, Size 9x2 1/2 in.

Weight Per Set 3 1/4 Pounds.

One Set in a Box, with Screws.

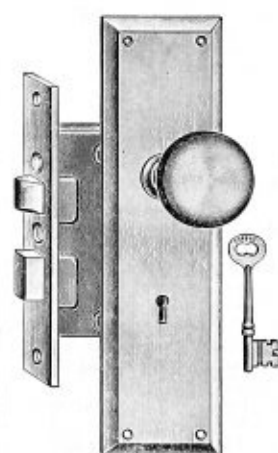
BIT KEYED FRONT DOOR SETS

Wrought Bronze

Per Set
 No. R702822 — Antique
 Copper, Polished..... \$5.50
 No. EA702822 — Dull
 Brass, Natural Color... 5.50

Lock—No. 1251, 4 3/8 x 3 1/2 in.
 Japanned Iron Case, 2 1/2 in.
 Backset, 7x1 in. Wrought
 Bronze Front, Bronze Bolts,
 Easy Spring Latch Bolt, Re-
 versible, 2 Tumblers, 48
 Changes, 2 Nickel Plated
 Steel Keys.

Operated — Latch Bolt by
 Knob from Either Side, Ex-
 cept when Outside Knob is
 Set by Stop in Face of Lock,
 Dead Bolt by Key from In-
 side, Both Dead Bolt and
 Latch Bolt, by same Key
 from Outside, at All Times.



Knobs—Two No. 1419 1/2, Size 2 1/4 in., 3/8 in. Swivel Spindle.

Escutcheons—Outside No. 70229, Size 10x2 3/4 in.; Inside
 No. 70231, Size 7x2 1/4 in.

Wrought Steel

Per Set
 No. R602806—Antique Copper, Polished..... \$3.10
 No. EA602806—Dull Brass, Natural Color..... 3.10

Lock—No. 3251, Plated Wrought Steel Front, Bronze
 Plated Iron Bolts, Otherwise Same as Lock No. 1251
 Described Above.

Knobs—Two No. 01419 1/2, Size 2 1/4 in., 3/8 in. Swivel Spindle.

Escutcheons—Outside No. 60229, Size 10x2 3/4 in.; Inside
 No. 60231, Size 7x2 1/4 in.

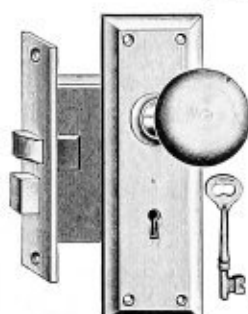
Weight Per Set 3 1/2 Pounds.

One Set in a Box, with Screws.

PORTLAND DESIGN

Wrought Bronze and Wrought Steel

INSIDE DOOR SETS



Wrought Bronze

Per Set

No. R702156—Antique Copper, Polished \$3.20

No. EA702156—Dull Brass, Natural Color 3.20

Lock—No. 785, 3 1/4 x 3 1/4 in. Japanned Iron Case, 2 1/8 in. Backset, 5 1/2 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 1419 1/2, Size 2 1/4 in., 1/8 in. Straight Spindle.

Escutcheons—Two No. 70231, Size 7x2 1/4 in.

Weight Per Set 2 1/4 Pounds.

One Set in a Box, with Screws.



Wrought Steel

Per Dozen Sets

No. R602048 1/2 — Antique Copper, Polished \$14.45

No. EA602048 1/2 — Dull Brass, Natural Color 14.45

Lock—No. 13271, 3 1/4 x 3 1/4 in. Japanned Iron Case, 2 1/8 in. Backset, 5 1/4 x 1 1/8 in. Wrought Steel Front, Brass Plated Cast Iron Bolts, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 1523 1/2, Size 2 1/4 in., 1/8 in. Straight Spindle.

Escutcheons—Two No. 60231, Size 7x2 1/4 in.

Weight Per Dozen Sets 24 Pounds.

One Set in a Box, with Screws.

SLIDING DOOR SETS

Wrought Steel

For Single Doors Per Set

No. R602306—Antique Copper, Polished \$3.80

No. EA602306—Dull Brass, Natural Color 3.80

Lock—No. 13092, 5 1/4 x 4 in. Japanned Iron Case, 2 1/4 in. Backset, 7 1/2 x 1 1/8 in. Wrought Steel Front, Cast Bronze Bolt and Pull, 1 Bronze Key.

Escutcheons—Two No. 60234, Size 7x2 1/4 in.

Weight Per Set 2 3/4 Pounds.

For Double Doors Per Set

No. R602308—Antique Copper, Polished \$5.80

No. EA602308—Dull Brass, Natural Color 5.80

Lock—No. 13100, for Double Doors, Otherwise Same as Lock No. 13092 Described Above.

Escutcheons—Four No. 60234, Size 7x2 1/4 in.

Weight Per Set 4 1/2 Pounds.

One Set in a Box, with Screws.



ELECTRIC PUSH BUTTONS

Wrought Bronze

Size 3 1/4 x 1 1/2 in.

Each

No. R70261—Antique Copper, Polished \$1.65

No. EA70261—Dull Brass, Natural Color 1.65

Weight Per Box 3/4 Pound.

Three in a Box, with Screws.

BATH ROOM SETS

Only Inside Trim is furnished with Bath Room Lock Sets. Any Knob and Escutcheon may be used for outside.

Wrought Bronze

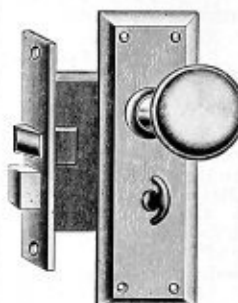
Per Set

No. E702436—Nickel Plated, Polished \$2.70

Lock—No. 159, 4 1/4 x 3 1/2 in. Japanned Iron Case, 2 3/4 in. Backset, 6 1/4 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible Dead Bolt Operated by Thumb Knob from Inside Only.

Knob—One No. 1419 1/2, Size 2 1/4 in., 1/8 in. Straight Spindle.

Escutcheon—One No. 70231, Size 7x2 1/4 in., with Thumb Knob.



Wrought Steel

Per Set

No. E602072 1/2—Nickel Plated, Polished \$1.35

Lock—No. 13159, 3 1/4 x 3 1/4 in. Japanned Iron Case, 2 1/8 in. Backset, 5 1/4 x 1 1/8 in. Wrought Steel Front, Brass Plated Cast Iron Bolts, Reversible, Dead Bolt Operated by Thumb Knob from Inside Only.

Knob—One No. 1523 1/2, Size 2 1/4 in., 1/8 in. Straight Spindle.

Escutcheon—One No. 60231, Size 7x2 1/4 in., with Thumb Knob.

Weight Per Set 2 Pounds.

One Set in a Box, with Screws.

ESCUTCHEONS

Wrought Bronze

Size 7x2 1/4 in.

Per Dozen

No. R70231—Antique Copper, Polished \$7.20

No. EA70231—Dull Brass, Natural Color 7.20

No. A70231—Polished Brass 7.20

No. E70231—Nickel Plated, Polished 7.92

No. F70231—Genuine Rustless Iron... 5.28

Wrought Steel

Size 7x2 1/4 in.

Per Dozen

No. R60231—Antique Copper, Polished \$3.72

No. EA60231—Dull Brass, Natural Color 3.72

Weight Per Dozen 3 Pounds.

One-quarter Dozen in a Box, with Screws.



Wrought Bronze

Size 1 1/4 x 1 1/4 in.

Per Dozen

No. B2596 1/2—Polished Bronze \$1.35

No. R2596 1/2—Antique Copper, Polished 1.35

No. EA2596 1/2—Dull Brass, Natural Color 1.35

No. E2596 1/2—Nickel Plated, Polished... 1.55

No. F2596 1/2—Genuine Rustless Iron... 1.05

Weight Per Dozen 1/2 Pound.

Two Dozen in a Box, with Screws.



Wrought Bronze

Size 1 1/4 x 1 1/4 in.

Per Dozen

No. EA2560—Dull Brass, Natural Color \$1.35

No. A2560—Polished Brass 1.35

No. SKA2560—Sanded Brass, Oxidized and Relieved 1.55

No. E2560—Nickel Plated, Polished 1.55

Weight Per Dozen 1/2 Pound.



Cast Bronze

Size 1 1/4 x 1 1/4 in.

Per Dozen

No. EA2660—Dull Brass, Natural Color \$2.65

No. A2660—Polished Brass 2.65

No. SKA2660—Sanded Brass, Oxidized and Relieved 3.00

No. E2660—Nickel Plated, Polished 3.00

Weight Per Dozen 1/2 Pound.

Two Dozen in a Box, with Screws.

RONDO DESIGN

Wrought Bronze and Wrought Steel

CYLINDER FRONT DOOR SETS



Wrought Bronze

Per Set

No. 2A722842—Sanded Brass, Oxidized and Relieved, High Lights Polished \$13.67

Lock—No. 1343, 5 3/8 x 3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/4 x 1 1/2 in. Cast Bronze Front, Cast Bronze Bolts Easy Spring Latch Bolt, Reversible, 1 Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

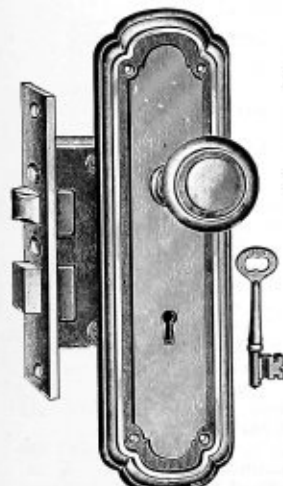
Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

Knobs—Two No. 72222, Size 2 1/4 in., 3/8 in. Swivel Spindle. Escutcheons—Outside No. 72229, Size 11x3 in.; Inside No. 72231, Size 7 3/4 x 2 1/2 in.

Weight Per Set 4 3/4 Pounds.

One Set in a Box, with Screws.

BIT KEYED FRONT DOOR SETS



Wrought Bronze

Per Set

No. 2A722822 — Sanded Brass, Oxidized and Relieved, High Lights Polished \$6.00

Lock—No. 1251, 4 5/8 x 3 1/2 in. Japanned Iron Case, 2 1/2 in. Backset, 7x1 in. Wrought Bronze Front, Bronze Bolts, Easy Spring Latch Bolt, Reversible, 2 Tumblers, 48 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Key from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

Knobs—Two No. 72222, Size 2 1/4 in., 3/8 in. Swivel Spindle. Escutcheons—Outside No. 72229, Size 11x3 in.; Inside No. 72231, Size 7 3/4 x 2 1/2 in.

Wrought Steel

Per Set

No. 2A622806—Sanded Brass, Oxidized and Relieved, High Lights Polished \$3.67

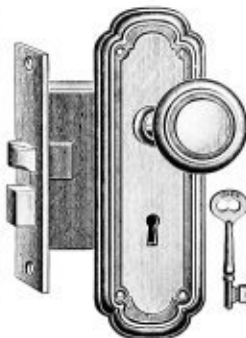
Lock—No. 3251, Plated Wrought Steel Front, Brass Plated Iron Bolts, Otherwise Same as Lock No. 1251 Described Above.

Knobs—Two No. 62222, Size 2 1/4 in., 3/8 in. Swivel Spindle. Escutcheons—Outside No. 62229, Size 11x3 in.; Inside No. 62231, Size 7 3/4 x 2 1/2 in.

Weight Per Set 3 1/2 Pounds.

One Set in a Box, with Screws.

INSIDE DOOR SETS



Wrought Bronze

Per Set

No. 2A722156 — Sanded Brass, Oxidized and Relieved, High Lights Polished \$3.98

Lock—No. 785, 3 3/4 x 3 1/4 in. Japanned Iron Case, 2 3/4 in. Backset, 5 1/2 x 1 1/2 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 72222, Size 2 1/4 in., 3/8 in. Straight Spindle.

Escutcheons—Two No. 72231, Size 7 3/4 x 2 1/2 in.

Weight Per Set 2 1/4 Pounds.

One Set in a Box, with Screws.

Wrought Steel

Per Dozen Sets

No. 2A622048—Sanded Brass, Oxidized and Relieved, High Lights Polished \$17.80

Lock—No. 13271, 3 3/4 x 3 1/4 in. Japanned Iron Case, 2 3/4 in. Backset, 5 1/4 x 7/8 in. Wrought Steel Front, Brass Plated Cast Iron Bolts, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 62222, Size 2 1/4 in., 3/8 in. Straight Spindle.

Escutcheons—Two No. 62231, Size 7 3/4 x 2 1/2 in.

Weight Per Set 2 Pounds.

One Set in a Box, with Screws.

SLIDING DOOR SETS

Wrought Steel

For Single Doors Per Set

No. 2A622306 — Sanded Brass, Oxidized and Relieved, High Lights Polished \$4.13

Lock—No. 13092, 5 1/4 x 4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/4 x 1 1/2 in. Wrought Steel Front, Cast Bronze Bolt and Pull, 1 Bronze Key.

Escutcheons—Two No. 62234, Size 7 3/4 x 2 1/2 in.

Weight Per Set 2 3/4 Pounds.

For Double Doors Per Set

No. 2A622308 — Sanded Brass, Oxidized and Relieved, High Lights Polished \$6.35

Lock—No. 13100, for Double Doors, Otherwise Same as Lock No. 13092 Described Above.

Escutcheons—Four No. 62234, Size 7 3/4 x 2 1/2 in.

Weight Per Set 4 3/4 Pounds.

One Set in a Box, with Screws.

ELECTRIC PUSH BUTTONS

Wrought Bronze

Size 4x1 1/2 in.

Each

No. 2A72261—Sanded Brass, Oxidized and Relieved, High Lights Polished \$1.40

Weight Per Box 1/4 Pound.

Three in a Box, with Screws.



DOVER DESIGN

Wrought Bronze and Wrought Steel

CYLINDER FRONT DOOR SETS

Wrought Bronze

Per Set

No. 2A725842—Sanded Brass, Oxidized and Relieved, High Lights Polished\$13.67

Lock—No. 1343, 5 3/4 x 3 3/4 in. Japanned Iron Case, 2 1/2 in. Backset, 7 1/2 x 1 1/2 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys. Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside at all Times.

Knobs—Two No. 72522, Size 2 1/4 in., 3/8 in. Swivel Spindle. Escutcheons—Outside No. 72529, Size 11x3 in.; Inside No. 72531, Size 7 3/4 x 2 1/2 in.

Weight Per Set 4 1/2 Pounds.
One Set in a Box, with Screws.

CYLINDER VESTIBULE DOOR SETS

Wrought Bronze

Per Set

No. 2A725742—Sanded Brass, Oxidized and Relieved, High Lights Polished\$11.47

Lock—No. 1323, 4 1/4 x 3 3/4 in. Japanned Iron Case, 2 1/4 in. Backset, 6 1/4 x 1 1/2 in. Cast Bronze Front, Cast Bronze Easy Spring Latch Bolt, Reversible, 1 Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—By Knob from Either Side Except when Outside Knob is Set by Stop in Face of Lock, by Key from Outside at all Times.

Knobs—Two No. 72522, Size 2 1/4 in., 3/8 in. Swivel Spindle. Escutcheons—Outside No. 72530, Size 9x2 3/4 in.; Inside No. 72531, Size 7 3/4 x 2 1/2 in.

Weight Per Set 3 1/2 Pounds.
One Set in a Box, with Screws.

ELECTRIC PUSH BUTTONS

Wrought Bronze

Size 4x1 1/2 in.

Each

No. 2A72561—Sanded Brass, Oxidized and Relieved, High Lights Polished\$1.46
Weight Per Box 3/8 Pound.
Three in a Box, with Screws.

BIT KEYED FRONT DOOR SETS

Wrought Bronze

Per Set

No. 2A725822—Sanded Brass, Oxidized and Relieved, High Lights Polished\$6.00

Lock—No. 1251, 4 3/4 x 3 1/2 in. Japanned Iron Case, 2 1/2 in. Backset, 7x1 in. Wrought Bronze Front, Bronze Bolts, Easy Spring Latch Bolt, Reversible, 2 Tumblers, 48 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Knob from Either Side Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Key from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside at all Times.

Knobs—Two No. 72522, Size 2 1/4 in., 3/8 in. Swivel Spindle. Escutcheons—Outside No. 72529, Size 11x3 in.; Inside No. 72531, Size 7 3/4 x 2 1/2 in.

Wrought Steel

Per Set

No. 2A625806—Sanded Brass, Oxidized and Relieved, High Lights Polished\$3.67
Lock—No. 3251, Plated Wrought Steel Front, Brass Plated Iron Bolts, Otherwise Same as Lock No. 1251 Described Above.

Knobs—Two No. 62522, Size 2 1/4 in., 3/8 in. Swivel Spindle. Escutcheons—Outside No. 62529, Size 11x3 in.; Inside No. 62531, Size 7 3/4 x 2 1/2 in.

Weight Per Set 3 1/2 Pounds.
One Set in a Box, with Screws.

INSIDE DOOR SETS

Wrought Bronze

Per Set

No. 2A725156—Sanded Brass, Oxidized and Relieved, High Lights Polished\$3.98

Lock—No. 785, 3 3/4 x 3 1/4 in. Japanned Iron Case, 2 1/4 in. Backset, 5 1/2 x 1 1/2 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 72522, Size 2 1/4 in., 3/8 in. Straight Spindle. Escutcheons—Two No. 72531, Size 7 3/4 x 2 1/2 in.

Wrought Steel

Per Dozen Sets

No. 2A625048—Sanded Brass, Oxidized and Relieved, High Lights Polished\$17.80

Lock—No. 13271, 3 3/4 x 3 1/2 in. Japanned Iron Case, 2 1/4 in. Backset, 5 1/4 x 7/8 in. Wrought Steel Front, Brass Plated Cast Iron Bolts, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 62522, Size 2 1/4 in., 3/8 in. Straight Spindle. Escutcheons—Two No. 62531, Size 7 3/4 x 2 1/2 in.

Weight Per Dozen Sets 27 Pounds.
One Set in a Box, with Screws.

SLIDING DOOR SETS

Wrought Steel

Lock—5 1/4 x 4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 1/2 x 1 1/2 in. Wrought Steel Front, Cast Bronze Bolt and Pull, 1 Bronze Key.

For Single Doors

Per Set

No. 2A625306—Sanded Brass, Oxidized and Relieved, High Lights Polished\$4.13

Escutcheons—Two No. 62534, Size 7 3/4 x 2 1/2 in.
Weight Per Set 2 1/2 Pounds.
One Set in a Box, with Screws.

For Double Doors

Per Set

No. 2A625308—Sanded Brass, Oxidized and Relieved, High Lights Polished\$6.35

Escutcheons—Four No. 62534, Size 7 3/4 x 2 1/2 in.
Weight Per Set 4 1/2 Pounds.
One Set in a Box, with Screws.

WAKEFIELD DESIGN

Wrought Bronze and Wrought Steel

CYLINDER FRONT DOOR SETS

Wrought Bronze

Per Set
No. KA726842 — Dull
Brass, Oxidized and
Relieved\$13.33

Lock—No. 1343, 5 3/8 x 3 3/4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 7/8 x 1 1/2 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.



Knobs—Two No. 72622, Size 2 1/4 in., 3/8 in. Swivel Spindle.

Escutcheons—Outside No. 72629, Size 11x3 in.; Inside No. 72631, Size 7 3/4 x 2 1/2 in.

Weight Per Set 4 3/4 Pounds.
One Set in a Box, with Screws.

BIT KEYED FRONT DOOR SETS

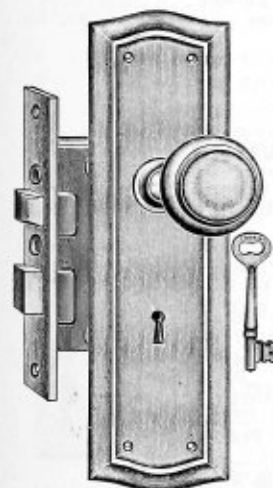
Wrought Bronze

Per Set
No. KA726822—Dull Brass,
Oxidized and Relieved...\$5.80

Lock—No. 1251, 4 5/8 x 3 1/2 in. Japanned Iron Case, 2 1/2 in. Backset, 7x1 in. Wrought Bronze Front, Bronze Bolts, Easy Spring Latch Bolt, Reversible, 2 Tumblers, 48 Changes, 2 Nickel Plated Steel Keys.

Operated — Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Key from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

Knobs—Two No. 72622, Size 2 1/4 in., 3/8 in. Swivel Spindle.



Escutcheons—Outside No. 72629, Size 11x3 in.; Inside No. 72631, Size 7 3/4 x 2 1/2 in.

Wrought Steel

Per Set
No. KA626806—Dull Brass, Oxidized and Relieved...\$3.55

Lock—No. 3251, Plated Wrought Steel Front, Brass Plated Cast Iron Bolts, Otherwise Same as Lock No. 1251 Described Above.

Knobs—Two No. 62622, Size 2 1/4 in., 3/8 in. Swivel Spindle.

Escutcheons—Outside No. 62629, Size 11x3 in.; Inside No. 62631, Size 7 3/4 x 2 1/2 in.

Weight Per Set 3 1/2 Pounds.
One Set in a Box, with Screws.

INSIDE DOOR SETS

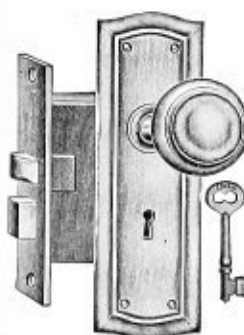
Wrought Bronze

Per Set
No. KA726156 — Dull
Brass, Oxidized and Re-
lieved\$3.78

Lock—No. 785, 3 3/8 x 3 1/4 in. Japanned Iron Case, 2 3/8 in. Backset, 5 1/2 x 1 1/2 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 72622, Size 2 1/4 in., 3/8 in. Straight Spindle.

Escutcheons—Two No. 72631, Size 7 3/4 x 2 1/2 in.



Weight Per Set 2 1/4 Pounds.
One Set in a Box, with Screws.

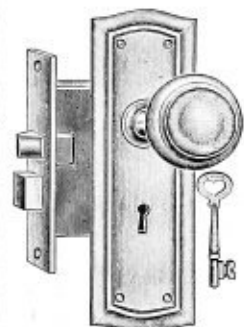
Wrought Steel

Per Dozen Sets
No. KA626048 — Dull Brass,
Oxidized and Relieved...\$16.60

Lock—No. 13271, 3 3/8 x 3 1/4 in. Japanned Iron Case, 2 3/8 in. Backset, 5 1/2 x 7/8 in. Wrought Steel Front, Brass Plated Cast Iron Bolts, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Knobs—Two No. 62622, Size 2 1/4 in., 3/8 in. Straight Spindle.

Escutcheons—Two No. 62631, Size 7 3/4 x 2 1/2 in.



Weight Per Set 2 Pounds.
One Set in a Box, with Screws.

SLIDING DOOR SETS

Wrought Steel

For Single Doors

Per Set
No. KA626306 — Dull Brass,
Oxidized and Relieved.....\$3.80

Lock—No. 13092, 5 1/4 x 4 in. Japanned Iron Case, 2 3/4 in. Backset, 7 3/4 x 1 1/2 in. Wrought Steel Front, Cast Bronze Bolt and Pull, 1 Bronze Key.

Escutcheons—Two No. 62634, Size 7 3/4 x 2 1/2 in.

Weight Per Set 2 3/4 Pounds.



For Double Doors

Per Set
No. KA626308 — Dull Brass,
Oxidized and Relieved.....\$5.80

Lock—No. 13100, for Double Doors, Otherwise Same as No. 13092 Described Above.

Escutcheons—Four No. 62634, Size 7 3/4 x 2 1/2 in.

Weight Per Set 4 3/4 Pounds.
One Set in a Box, with Screws.

ELECTRIC PUSH BUTTONS

Wrought Bronze

Size 4x1 1/2 Inches.

Each
No. KA72661—Dull Brass, Oxidized and
Relieved\$1.31

Weight Per Box, 1/4 Pound.
Three in a Box, with Screws.



FRENCH WINDOW LOCK SETS

PORTLAND DESIGN



Flat Front Lock, Wrought Bronze

- | | Per Set |
|--|---------|
| No. R702112—Antique Copper, Polished..... | \$5.55 |
| No. EA702112—Dull Brass, Natural Color..... | 5.55 |
| No. SKA702112—Sanded Brass, Oxidized and Relieved..... | 5.90 |
| Lock—No. 1283, 3 3/4 x 2 1/8 in. Japanned Iron Case, 1 1/2 in. Backset, 5 1/4 x 7/8 in. Wrought Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key. | |
| Knob and Lever—Knob No. 1421, Size 1 3/4 in., Lever No. 2124, Size 2 in., 1/8 in. Straight Spindle. | |
| Escutcheons—Two No. 70237, Size 4 3/4 x 1 1/2 in. | |

Flat Front Lock, Wrought Steel

- | | Per Set |
|--|---------|
| No. R602057—Antique Copper Polished..... | \$2.20 |
| No. EA602057—Dull Brass, Natural Color..... | 2.20 |
| No. SKA602057—Sanded Brass, Oxidized and Relieved..... | 2.35 |
| Lock—No. 3283, Wrought Steel Front, Cast Iron Bolts, Otherwise Same as No. 1283 Described Above. | |
| Knob and Lever—Knob No. 01421, Size 1 3/4 in., Lever No. 3124, Size 2 in., 1/8 in. Straight Spindle. | |
| Escutcheons—Two No. 60237, Size 4 3/4 x 1 1/2 in. | |
| Weight Per Set 1 1/2 Pounds. | |

Rabbeted Front Lock, Wrought Bronze

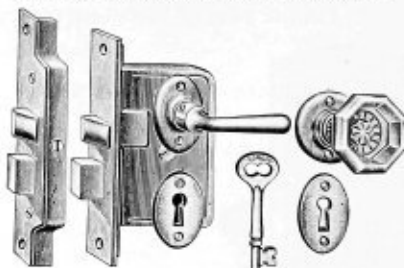
- | | Per Set |
|--|---------|
| No. R702114—Antique Copper, Polished..... | \$6.65 |
| No. EA702114—Dull Brass, Natural Color..... | 6.65 |
| No. SKA702114—Sanded Brass, Oxidized and Relieved..... | 7.00 |
| Lock—No. 2383, 3 3/4 x 2 1/8 in. Japanned Iron Case, 1 1/2 in. Backset, 5 1/4 x 1 1/8 in. Wrought Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key. | |
| Knob and Lever—Knob No. 01421, Size 1 3/4 in.; Lever No. 2124, Size 2 in., 1/8 in. Straight Spindle. | |
| Escutcheons—Two No. 70237, Size 4 3/4 x 1 1/2 in. | |

Rabbeted Front Lock, Wrought Steel

- | | Per Set |
|--|---------|
| No. R602059—Antique Copper, Polished..... | \$2.80 |
| No. EA602059—Dull Brass, Natural Color..... | 2.80 |
| No. SKA602059—Sanded Brass, Oxidized and Relieved..... | 2.90 |
| Lock—No. 3383, Wrought Steel Front, Cast Iron Bolts, Otherwise Same as No. 2383 Described Above. | |
| Knob and Lever—Knob No. 01421, Size 1 3/4 in., Lever No. 3124, Size 2 in., 1/8 in. Straight Spindle. | |
| Escutcheons—Two No. 60237, Size 4 3/4 x 1 1/2 in. | |
| Weight Per Set 1 3/4 Pounds. | |

One Set in a Box, with Screws.

SECTIONAL, WITH GLASS KNOB



Flat Front Lock, Wrought Bronze

- | | Per Set |
|---|---------|
| No. R053112—Antique Copper, Polished..... | \$4.00 |
| No. EA053112—Dull Brass, Natural Color..... | 4.00 |
| No. SKA053112—Sanded Brass, Oxidized and Relieved..... | 4.20 |
| Lock—No. 1283, 3 3/4 x 2 1/8 in. Japanned Iron Case, 1 1/2 in. Backset, 5 1/4 x 7/8 in. Wrought Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolts, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key. | |
| Knob and Lever—Knob No. 340 7/8, Octagon Clear Glass, Size 1 3/4 in., 1 3/4 in. Rose, Lever No. 2124, Size 2 in., 1 3/4 x 1 1/8 in. Rose, 1/8 in. Straight Spindle. | |
| Escutcheons—Two No. 2560, Size 1 3/4 x 1 1/2 in. | |

Rabbeted Front Lock, Wrought Bronze

- | | Per Set |
|---|---------|
| No. R053114—Antique Copper, Polished..... | \$5.10 |
| No. EA053114—Dull Brass, Natural Color..... | 5.10 |
| No. SKA053114—Sanded Brass, Oxidized and Relieved..... | 5.35 |
| Lock—No. 2383, 3 3/4 x 2 1/8 in. Japanned Iron Case, 1 1/2 in. Backset, 5 1/4 x 1 1/8 in. Wrought Bronze Front, Otherwise Same as No. 1283 Described Above. | |
| Knob, Lever, Rose and Escutcheons—Same as in Set No. 053112. | |

Weight Per Set 1 3/4 Pounds.
One Set in a Box, with Screws.

THUMB KNOBS

Cast Bronze

1 1/2 x 1 1/8 in. Plate, 1/8 in. Spindle.



- | | Per Dozen |
|---|-----------|
| No. EA2149—Dull Brass, Natural Color..... | \$6.60 |
| No. E2149—Nickel Plated, Polished..... | 7.20 |
| Weight Per Dozen 1 1/2 Pounds. | |
| One Dozen in a Box, with Screws. | |

Cast Bronze

2 1/4 x 1 3/8 in. Plate, 1/8 in. Spindle.

- | | Per Dozen |
|---|-----------|
| No. EA2149 1/4—Dull Brass, Natural Color..... | \$10.80 |
| No. E2149 1/4—Nickel Plated, Polished..... | 11.40 |
| Weight Per Dozen 2 1/2 Pounds. | |
| One Dozen in a Box, with Screws. | |



Cast Bronze

1 5/8 x 1 1/8 in. Plate, 1/8 in. Spindle.



- | | Per Dozen |
|---|-----------|
| No. EA2145—Dull Brass, Natural Color..... | \$7.80 |
| No. A2145—Polished Brass..... | 7.80 |
| No. E2145—Nickel Plated, Polished..... | 9.00 |
| Weight Per Dozen 1 1/2 Pounds. | |
| One Dozen in a Box, with Screws. | |

Pressed Glass, Cast Bronze Base and Rose
1 1/4 in. Knob, 1 3/4 x 1 1/8 in. Rose, 1/8 in. Spindle.

- | | Per Dozen |
|---|-----------|
| No. EA2240 1/2—Dull Brass, Natural Color..... | \$16.20 |
| No. E2240 1/2—Nickel Plated, Polished..... | 17.40 |
| Weight Per Dozen 2 1/2 Pounds. | |
| One Dozen in a Box, with Screws. | |



BUTTON LOCK SETS

SCHLAGE

TRADE MARK REG. U. S. PAT. OFF.

This type of lock is assembled in a set at the factory and sold as a complete unit. It does away with the use of inside keys. The door is locked from the inside by pressing the button in the knob, and the act of turning the inside knob unlocks the door. Other types may be unlocked from the outside by a key in the knob.

It requires no mortising. To apply simply drill two holes in the door, slip in the lock and tighten two machine screws to clamp the complete set to the door.

Reversible for either right or left hand doors and adjustable for doors from $1\frac{3}{8}$ to $1\frac{3}{4}$ in. thick.

Furnished with functions for Entrance Doors, Bedroom Doors, Bathroom Doors and ordinary Inside Doors and Closet Latches, with metal, glass or opal glass knobs, in any standard finish.



EXTERIOR DOOR SETS

| | Per Set |
|---|---------|
| No. AK-1—With Metal Knobs..... | \$4.00 |
| No. AK-12—With Metal Knob Outside and Glass Knob Inside..... | 4.25 |
| No. AK-13—With Metal Knob Outside and Opal Glass Knob Inside..... | 4.50 |

Operation—Locked from Inside by Push Button in Knob, Unlocked from Outside by Key in Knob and from Inside by Turning Knob.

BEDROOM OR OTHER INTERIOR DOOR SETS

| | Per Set |
|---|---------|
| No. AB-1—With Metal Knobs..... | \$3.00 |
| No. AB-2—With Glass Knobs..... | 3.50 |
| No. AB-23—With Glass Knob Outside and Opal Glass Knob Inside..... | 3.75 |
| No. AB-3—With Opal Glass Knobs..... | 4.00 |

Operation—Locked from Inside by Push Button in Knob, Cannot be Unlocked from Outside, Unlocked from Inside by Turning Knob.

BATHROOM DOOR SETS

| | Per Set |
|---|---------|
| No. AE-1—With Metal Knobs..... | \$3.00 |
| No. AE-2—With Glass Knobs..... | 3.50 |
| No. AE-23—With Glass Knob Outside and Opal Glass Knob Inside..... | 3.75 |

Operation—Locked from Inside by Push Button in Knob, May be Unlocked from Outside by Flat Emergency Key in Knob, Unlocked from Inside by Turning Knob.

CLOSET LATCH SETS

With Knob on Both Sides

| | Per Set |
|--------------------------------------|---------|
| No. AL-1—With Metal Knobs..... | \$2.50 |
| No. AL-2—With Glass Knobs..... | 3.00 |
| No. AL-33—With Opal Glass Knobs..... | 3.50 |

Operated—By Knob from Either Side, Has No Locking Feature.

With Knob on One Side and Thumb Turn on Other Side

| | Per Set |
|-------------------------------------|---------|
| No. AC-1—With Metal Knob..... | \$1.50 |
| No. AC-2—With Glass Knob..... | 1.75 |
| No. AC-3—With Opal Glass Knobs..... | 2.00 |

Operated—By Knob from One Side and Thumb Turn from the Other Side, Has No Locking Feature.

Note—When ordering be sure to Specify Finish Desired.

All Above, One Set in a Box.

FORGED IRON HARDWARE

FOR ENTRANCE DOORS

HANDLES



No. 12501CL



No. 12501HT



No. 12500TP



No. 12500EN

| Nos. | 12501CL | 12501HT |
|------------------|----------------|---------------|
| Handle, Inches | 10 1/2 x 2 3/4 | 11 x 2 3/4 |
| Cylinder, Inches | 3 1/2 x 2 1/4 | 3 1/4 x 2 3/4 |
| Weight, Lbs. | 1 1/4 | 1 1/4 |
| Per Set | \$9.00 | 9.00 |

| Nos. | 12500TP | 12500EN |
|------------------|---------------|---------------|
| Handle, Inches | 12 x 2 3/4 | 9 3/4 x 2 1/2 |
| Cylinder, Inches | 3 3/4 x 2 3/4 | 3 1/2 x 2 1/4 |
| Weight, Lbs. | 1 1/4 | 1 |
| Per Set | \$5.00 | 5.50 |

Note—Either Type Grip may be had in any of the Four Designs.
One Handle with Cylinder Collar and Stud Head Screws in a Box.

HINGE STRAPS



No. 12509CL

| Nos. | 12509CL | 12510CL | 12512CL | 12513CL |
|-------------------------------|----------|----------|-------------|-------------|
| Extreme Lgth., In. | 22 | 18 1/2 | 28 | 32 |
| Width Strap at Hinge End, In. | 1 3/4 | 1 3/4 | 3 | 3 |
| Sq. Stud Scr., In. | 5/8 x 12 | 5/8 x 12 | 1 1/4 x 1/4 | 1 1/4 x 1/4 |
| Wt. Each, Lbs. | 1 1/4 | 1 | 3 | 3 1/4 |
| Each | \$2.50 | 2.25 | 3.75 | 4.00 |



No. 12509TP

| Nos. | 12509TP | 12510TP | 12512TP | 12513TP |
|-------------------------------|----------|----------|-------------|-------------|
| Extreme Lgth., In. | 23 | 19 1/2 | 28 3/4 | 32 3/4 |
| Width Strap at Hinge End, In. | 1 3/4 | 1 3/4 | 3 | 3 |
| Sq. Stud Scr., In. | 5/8 x 12 | 5/8 x 12 | 1 1/4 x 1/4 | 1 1/4 x 1/4 |
| Wt. Each, Lbs. | 1 1/4 | 1 | 3 | 3 1/4 |
| Each | \$2.50 | 2.25 | 3.75 | 4.00 |



No. 12509HT

| Nos. | 12509HT | 12510HT | 12512HT | 12513HT |
|-------------------------------|----------|----------|-------------|-------------|
| Extreme Lgth., In. | 22 1/4 | 18 3/4 | 28 1/4 | 32 1/4 |
| Width Strap at Hinge End, In. | 1 3/4 | 1 3/4 | 3 | 3 |
| Sq. Stud Scr., In. | 5/8 x 12 | 5/8 x 12 | 1 1/4 x 1/4 | 1 1/4 x 1/4 |
| Wt. Each, Lbs. | 1 1/4 | 1 | 3 | 3 1/4 |
| Each | \$2.50 | 2.25 | 3.75 | 4.00 |



No. 12509EN

| Nos. | 12509EN | 12512EN | 12513EN |
|----------------------------------|----------|-------------|-------------|
| Extreme Length, In. | 23 | 28 1/2 | 32 1/2 |
| Width Strap at Hinge End, Inches | 1 3/4 | 3 | 3 |
| Square Stud Screw, In. | 5/8 x 12 | 1 1/4 x 1/4 | 1 1/4 x 1/4 |
| Weight Each, Lbs. | 2 | 3 1/4 | 3 1/2 |
| Each | \$3.75 | 6.75 | 7.00 |

One in a Package, with Screws.

Note—Forged Iron Hardware can be furnished in three different finishes, all rust-proof: DB—Dead Black, K—Relieved or Gray Iron, KR—Rusty Iron (imitation).

In Ordering Give Finish Symbol

OFFSET HINGE STRAPS



No. 12511HT

Offset Center to Center 5 in.

| Nos. | 12511CL | 12511HT | 12511TP |
|----------------------------------|----------|----------|----------|
| Extreme Length, Inches | 22 | 22 1/4 | 23 |
| Width Strap at Hinge End, Inches | 1 3/4 | 1 3/4 | 1 3/4 |
| Square Stud Screw, In. | 5/8 x 12 | 5/8 x 12 | 5/8 x 12 |
| Weight, Lbs. | 1 3/4 | 1 3/4 | 1 3/4 |
| Each | \$4.00 | 4.00 | 4.00 |

One in a Package, with Screws.

DOOR KNOCKERS



No. 12640



No. 12641



No. 12642

| Nos. | 12640 | 12641 | 12642 |
|----------------|--------|-------|-------|
| Length, Inches | 8 1/2 | 7 1/2 | 6 1/2 |
| Width, Inches | 3 1/2 | 3 1/2 | 3 1/2 |
| Weight, Lbs. | 1 1/2 | 1 1/2 | 1 1/2 |
| Each | \$5.00 | 7.00 | 6.00 |

One in a Box, with Square Stud Screws.

ELECTRIC PUSH BUTTONS



| Nos. | 12508CL | 12508HT | 12508TP | 12508EN |
|--------------|---------|---------|---------|---------|
| Length, In. | 3 1/2 | 3 1/4 | 3 3/4 | 2 1/2 |
| Width, In. | 2 1/4 | 2 3/4 | 2 3/4 | 1 1/4 |
| Weight, Lbs. | 1/4 | 1/4 | 1/4 | 1/4 |
| Each | \$1.50 | 1.50 | 1.50 | 2.00 |

Two in a Box, with Square Stud Screws.

FORGED IRON HARDWARE

FOR INTERIOR DOORS AND WINDOWS

MORTISE LATCH SETS

Latch $3\frac{1}{4} \times 3$ in., Width $\frac{3}{4}$ in.,
Maximum Backset $2\frac{1}{2}$ in.

| | Handle, Inches | Per Set |
|-------------|------------------------------------|---------|
| No. 12503CL | $8\frac{1}{4} \times 2\frac{3}{4}$ | \$6.00 |
| No. 12503HT | 9 x 2 $\frac{3}{4}$ | 6.00 |
| No. 12503TP | 10 x 2 $\frac{1}{2}$ | 6.00 |
| No. 12503EN | 9 x 2 $\frac{1}{4}$ | 6.50 |

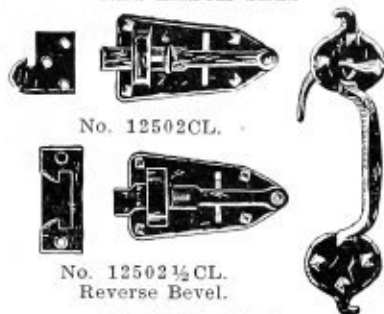
Made for doors $1\frac{3}{8}$ to $1\frac{1}{4}$ in.
thick. Other sizes made to order.

One in a Box, with Square Stud
Screws.



No. 12503HT.

RIM LATCH SETS



No. 12502CL.

No. 12502 $\frac{1}{2}$ CL.
Reverse Bevel.

| | Latch $4\frac{1}{2} \times 2\frac{1}{2}$ in. | Each |
|----------------------------|---|--------|
| No. 12502CL | —Handle $8\frac{1}{4} \times 2\frac{3}{4}$ in., Wt. 1 Lb. | \$5.00 |
| No. 12502 $\frac{1}{2}$ CL | —Handle $8\frac{1}{4} \times 2\frac{3}{4}$ in., Rev. Bevel. | 5.00 |
| No. 12502HT | —Handle 9 x 2 $\frac{3}{4}$ in., Wt. 1 Lb. | 5.00 |
| No. 12502 $\frac{1}{2}$ HT | —Handle 9 x 2 $\frac{3}{4}$ in., Rev. Bevel. | 5.00 |
| No. 12502TP | —Handle 10 x 2 $\frac{1}{2}$ in., Wt. 1 Lb. | 5.00 |
| No. 12502 $\frac{1}{2}$ TP | —Handle 10 x 2 $\frac{1}{2}$ in., Rev. Bevel. | 5.00 |
| No. 12502EN | —Handle 9 x 2 $\frac{1}{4}$ in., Wt. 1 Lb. | 5.50 |
| No. 12502 $\frac{1}{2}$ EN | —Handle 9 x 2 $\frac{1}{4}$ in., Rev. Bevel. | 5.50 |

One Set in a Box, with Square Stud Screws.

LEVER HANDLES

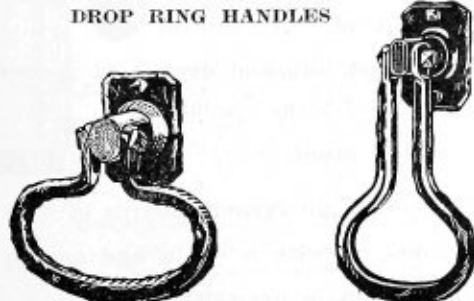


No. 12562EN.

| | Each |
|--|--------|
| No. 12528EN—Length 3 in., without Spring, Weight $\frac{3}{8}$ Lb. | \$5.00 |
| No. 12562EN—Length 4 in., with Auxiliary Spring to Hold Handle in Horizontal Position. | 6.50 |

Tapped for $\frac{1}{8}$ in. threaded spindle, without spindle.
One in a Box, with Rosette.

DROP RING HANDLES



No. 12600.

No. 12602.

Without Spindle

| | Each |
|--|--------|
| No. 12600— $3\frac{1}{4} \times 4$ in., Weight $\frac{1}{2}$ Lb. | \$5.00 |
| No. 12602— $4\frac{7}{8} \times 3$ in., Weight $\frac{5}{8}$ Lb. | 5.00 |

One in a Box, with Rosette.

SURFACE BOLTS



| | Each |
|--|--------|
| No. 12932—Length $3\frac{1}{2}$ in., Weight Box 1 Lb. | \$1.50 |
| No. 12630—Length $4\frac{1}{2}$ in., Weight Box 2 Lbs. | 1.50 |
| No. 12631—Length 9 in., Weight Each $1\frac{1}{4}$ Lbs. | 2.50 |
| No. 12631—Length 12 in., Weight Each $1\frac{1}{2}$ Lbs. | 3.00 |
| No. 12631—Length 18 in., Weight Each 2 Lbs. | 3.60 |
| No. 12631—Length 24 in., Weight Each $2\frac{1}{2}$ Lbs. | 4.00 |

Nos. 12932 and 12630, Five in a Box; No. 12631, One
Only in a Box, with Screws.

CASEMENT FASTENERS



Nos. 12900 12901 12902

Plate $2 \times 1\frac{1}{8}$ in., Levers $3\frac{1}{4}$ in.

| | Each |
|---|--------|
| No. 12900—Rim, Weight Per Box $1\frac{1}{4}$ Lbs. | \$2.00 |
| No. 12901—Mortise, Weight Per Box $1\frac{1}{4}$ Lbs. | 2.00 |
| No. 12902—Surface, Weight Per Box $1\frac{1}{4}$ Lbs. | 2.00 |

Five in a Box, with Strikes and Screws.

SHUTTER HOLDERS

For Brick

| | Per Pair |
|------------------------|----------|
| No. 1—With Lag Screws. | \$1.35. |

For Frame

| | 1.50 |
|-----------------------|------|
| No. 2—With Lag Screw. | |



SHUTTER HINGE STRAPS

| Nos. | Extreme Length, In. | Width at Hinge End, In. | Square Stud Screw | Weight Lbs. | Each |
|---------|---------------------|-------------------------|------------------------|---------------|--------|
| 12804CL | 14 | 1 $\frac{3}{8}$ | $\frac{3}{4} \times 9$ | $\frac{5}{8}$ | \$1.50 |
| 12804HT | 14 | 1 $\frac{3}{8}$ | $\frac{3}{4} \times 9$ | $\frac{5}{8}$ | 1.50 |
| 12804TP | 15 | 1 $\frac{3}{8}$ | $\frac{3}{4} \times 9$ | $\frac{5}{8}$ | 1.50 |
| 12804EN | 14 $\frac{1}{2}$ | 1 $\frac{3}{8}$ | $\frac{3}{4} \times 9$ | $\frac{5}{8}$ | 2.25 |

One in a Package, with Square Stud Screws.

CHIMNEY IRONS

| | Each |
|--|---------|
| No. 1300—Extreme Length 30 in., Extreme Width 10 $\frac{1}{2}$ in., Weight $6\frac{1}{4}$ Lbs. | \$15.00 |

One in a Paper.



FOOT SCRAPERS



| | Each |
|--|--------|
| No. 13011—Height 6 in., Width 7 $\frac{1}{2}$ in., Weight 2 Lbs. | \$5.50 |

One in Paper, with Lag Screws and Expansion Shields.

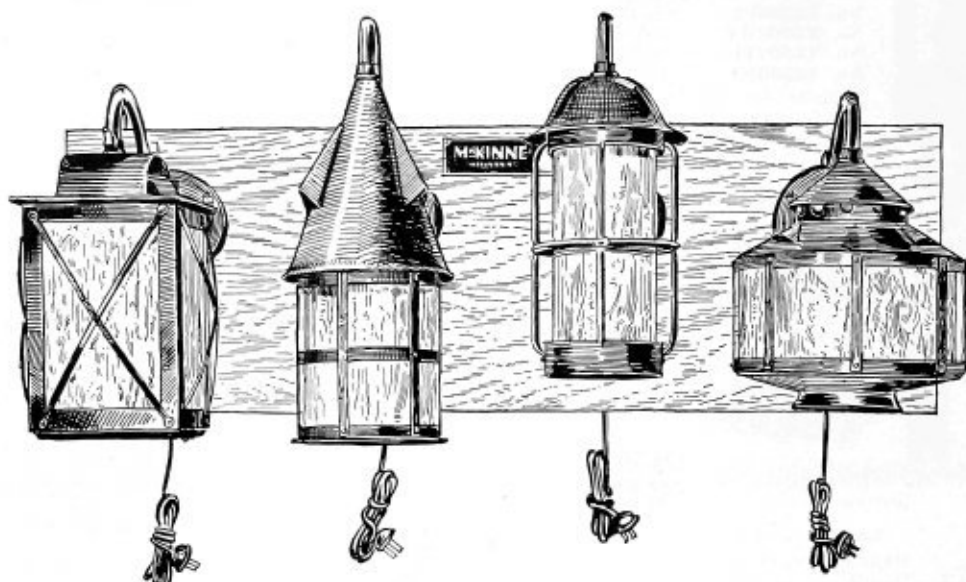
No. 1300.

Note—Forged Iron Hardware can be furnished in three different finishes, all rust proof.

DB—Dead Black; K—Relieved or Grey Iron; KR—Rusty Iron (Imitation).

In Ordering Give Finish Symbol

FORGED IRON LANTERNS



No. 15103.
The Nightwatch.

No. 15100.
The Salem.

No. 15101.
The Wayfarer.

No. 15102.
The Belfrey.

Complete Ready to Install

| | Each |
|--|---------|
| No. 15103—The Nightwatch, 11x7 in..... | \$24.50 |
| No. 15100—The Salem, 14x6 3/4 in..... | 22.00 |

Complete Ready to Install

| | Each |
|--|---------|
| No. 15101—The Wayfarer, 11 1/4 x 6 1/2 in..... | \$20.00 |
| No. 15102—The Belfrey, 9 1/4 x 8 1/2 in..... | 23.50 |

This is an easy line to handle, inasmuch as each lantern is packed with everything necessary for installation, in a strong carton suitable for reshipment. Carton size is 13x7x15 inches.

These lanterns are forged of Armco Ingot Iron. In addition to this a special rust-proofing treatment is given followed by a final finish of Dupont's Duco over a heavy coat of black enamel, producing a lustre which is lasting and weather proof.

These lanterns meet all the requirements of the various Boards of Fire Underwriters. They are furnished with a bracket or with a chain and canopy for ceiling application. In ordering, state whether chain or wall bracket.

The display board at the top of the page is sold to you completely wired ready to display for the cost of the lanterns alone.



MORTISE LATCHES

Per Dozen

No. B68 1/4—Polished Bronze. \$20.00
 Description—1 3/8 x 1 1/2 in. Japanned Iron Case, 1 1/8 in. Backset, 2 3/8 x 1 1/2 in. Cast Bronze Front, Cast Bronze Bolt, Reversible, Cast Bronze Thumb Knob and Escutcheon, Operated by Thumb Knob from One Side Only.

Weight Per Dozen 4 Pounds.
 One-half Dozen in a Box, with Screws.

Per Dozen

No. B68 1/2—Polished Bronze. \$20.55
 Description—2 x 1 1/2 in. Japanned Iron Case, 1 in. Backset, 3 1/4 x 5/8 in. Cast Bronze Front, Cast Bronze Bolt, Reversible, Cast Bronze Thumb Knob and Escutcheon, Operated by Thumb Knob from One Side Only.

Weight Per Dozen 5 1/2 Pounds.
 One-half Dozen in a Box, with Screws.

MORTISE KNOB LATCHES

Description—1 1/4 x 3 1/4 in. Japanned Iron Case, 2 3/8 in. Backset, 2 3/8 x 3/4 in. Front, Reversible, Hub for 1/8 in. Spindle.

Wrought Steel Front, Cast Iron Bolt

No. 0—Lacquered Per Dozen \$4.00
 No. EA0—Dull Brass, Natural Color..... 4.80

Wrought Bronze Front, Cast Bronze Bolt

No. B10—Polished Bronze 7.35
 No. EA10—Dull Brass, Natural Color..... 7.35

Weight Per Dozen 5 Pounds.
 One Dozen in a Box, with Screws.

Description—1 3/8 x 3 1/4 in. Japanned Iron Case, 2 3/8 in. Backset, 3 3/8 x 3/4 in. Cast Bronze Front, Cast Bronze Easy Spring Latch Bolt, Reversible, Hub for 1/8 in. Spindle.

No. B045—Polished Bronze Per Dozen \$12.00
 No. EA045—Dull Brass, Natural Color..... 12.00

Weight Per Dozen 7 1/2 Pounds.
 One-half Dozen in a Box.

Description—2 1/4 x 1 5/8 in. Japanned Iron Case, 1 in. Backset, 3 1/2 x 3/4 in. Cast Bronze Front, Cast Bronze Bolt, Reversible, Hub for 1/8 in. Spindle.

No. B65—Polished Bronze..... Per Dozen \$16.00

Weight Per Dozen 5 1/4 Pounds.
 One Dozen in a Box, with Screws.

MORTISE KNOB LATCHES

Description—2 x 2 1/4 in. Japanned Iron Case, 1 3/4 in. Backset, 3 1/2 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolt, Reversible, Hub for 1/8 in. Spindle.

Per Dozen

No. B69—Polished Bronze \$14.65

Weight Per Dozen 5 3/4 Pounds.
 One-half Dozen in a Box, with Screws.

Description—2 1/8 x 3 1/8 in. Japanned Iron Case, 2 3/4 in. Backset, 4 1/2 x 1 1/8 in. Cast Bronze Front, Cast Bronze Easy Spring Latch Bolt, Reversible, Hub for 1/8 in. Spindle.

Each

No. B090—Polished Bronze \$2.75

Weight Per Dozen 15 1/2 Pounds.
 One-quarter Dozen in a Box, with Screws.

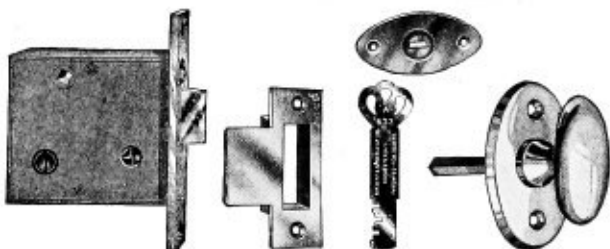
Description—2 1/2 x 3 3/8 in. Japanned Iron Case, 3 in. Backset, 4 1/2 x 1 1/8 in. Cast Bronze Front, Cast Bronze Anti-friction Latch Bolt, Reversible, Hub for 1/8 in. Spindle.

Each

No. B088 1/2—Polished Bronze \$3.00

Weight Per Dozen 12 Pounds.
 One-quarter Dozen in a Box, with Screws.

MORTISE NIGHT LATCHES



Each

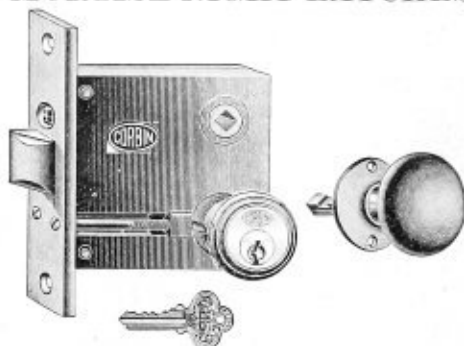
No. 11—Polished Bronze \$3.66

Description—2 1/2 x 3 in. Cast Bronze Case, 2 3/8 in. Backset, 4 1/8 x 1 in. Cast Bronze Front, Cast Bronze Bolt and Strike, Bronze Knob and Escutcheon, Lever Tumblers, 1000 Changes, 3 Liberty Silver Keys, Operated by Key from Outside and Thumb Knob Inside.

Note—When Ordering, State if for Right or Left Hand Door.

Weight Each 1 1/2 Pounds.
 One in a Box, with Screws.

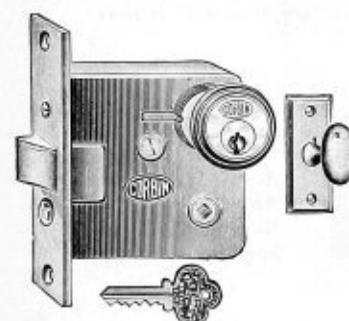
MORTISE NIGHT LATCHES



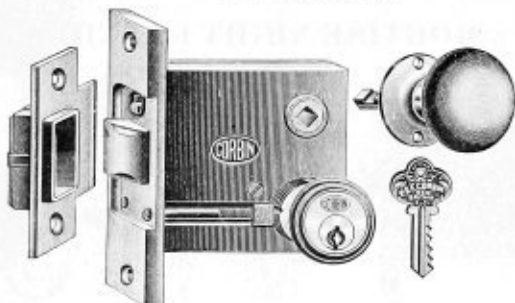
No. B0558—Polished Bronze.....Each
\$8.00

Description— $3\frac{1}{4} \times 3\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, $5 \times 1\frac{1}{2}$ in. Cast Bronze Front, Cast Bronze Easy Spring Latch Bolt, Reversible, Cast Bronze Knob, Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys, Operated by Key from Outside and Knob from Inside, Bolt may be held back by Stop in Face.
Weight Each 2 Pounds.

No. B0558 $\frac{1}{4}$ —Polished Bronze.....Each
\$10.45
Description—2 Cast Bronze Cylinders, Operated by Key from Either Side, Otherwise Same as No. B0558.
Weight Each $1\frac{1}{4}$ Pounds.
One in a Box, with Screws.



No. A558 $\frac{1}{2}$ —Polished Brass.....Each
\$8.00
Weight Each $1\frac{1}{4}$ Pounds.
One in a Box, with Screws.



No. B559—Polished Bronze.....Each
\$9.00

Description— $3\frac{1}{4} \times 3\frac{3}{4}$ in. Japanned Iron Case, 3 in. Backset, $5 \times 1\frac{1}{2}$ in. Cast Bronze Front, Cast Bronze Easy Spring Latch Bolt, Cast Bronze Knob, Cast Bronze Ball Bearing Cylinder, Changes Unlimited, 3 Nickel Silver Keys, Operated by Key from Outside and Knob from Inside, Bolt may be held back by Stop in Face.
Note—In Ordering, State if for Right or Left Hand Door.

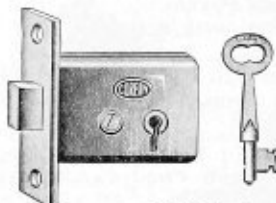
Weight Each $2\frac{1}{2}$ Pounds.
One in a Box, with Screws.

MORTISE DEAD LOCKS



No. B99 $\frac{1}{2}$ —Polished Bronze.....Each
\$1.45
Description— $1\frac{1}{2} \times 2$ in. Japanned Iron Case, $1\frac{1}{2}$ in. Backset, $2\frac{3}{4} \times 1\frac{1}{2}$ in. Cast Bronze Front, Cast Iron Bolt, Reversible, 1 Nickel Plated Steel Key.

Weight Per Box, 4 Pounds.
Twelve in a Box, with Screws.



No. B116 — Polished
BronzeEach
\$2.00

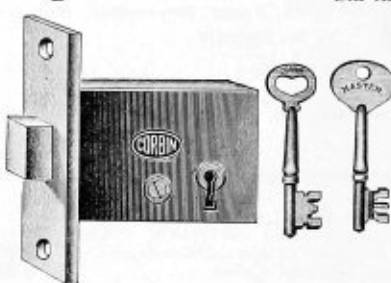
Description— $1\frac{7}{8} \times 2\frac{3}{4}$ in. Japanned Iron Case, $1\frac{1}{2}$ in. Backset, $3\frac{1}{4} \times 1\frac{1}{2}$ in. Cast Bronze Front, Cast Bronze Bolt, Reversible, 3 Tumblers, 36 Changes, 1 Nickel Plated Steel Key.

Weight Per Box $3\frac{3}{4}$ Pounds.
Six in a Box, with Screws.



No. B132 — Polished
BronzeEach
\$2.55

Description— $2\frac{1}{8} \times 3\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, 4×1 in. Cast Bronze Front, Cast Bronze Bolt, Reversible, 3 Tumblers, 640 Changes, 1 Nickel Plated Steel Key.
Weight Box, $5\frac{1}{4}$ Pounds.
Six in a Box, with Screws.



No. B144—Polished Bronze.....Each
\$4.85

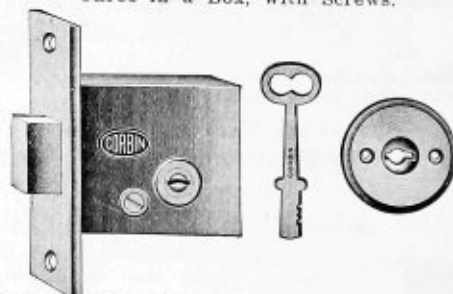
Description— $2\frac{1}{4} \times 3\frac{1}{2}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, $4\frac{1}{2} \times 1\frac{1}{2}$ in. Cast Bronze Front, Cast Bronze Bolt, Reversible, 4 Tumblers, 640 Changes, 1 Nickel Plated Steel Key.

Master Keyed

No. B144 $\frac{1}{2}$ —Polished Bronze.....Each
\$5.35

Description—Same as No. B144, but Master Keyed in One Set of 640, all Different, with a Master Key to Pass, or in 16 Sets of 40 Each, the 640 all Different, with Master Keys to Pass Each Set, and Grand Master Key to Pass all. May also be Master Keyed with other Locks having Same Class Master Key.

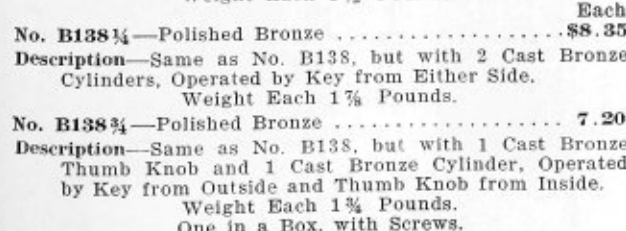
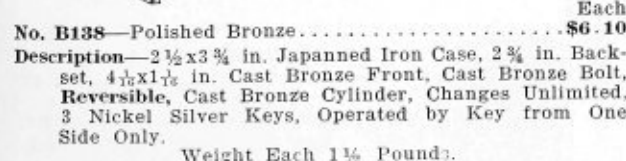
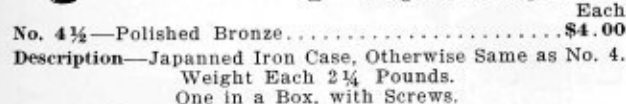
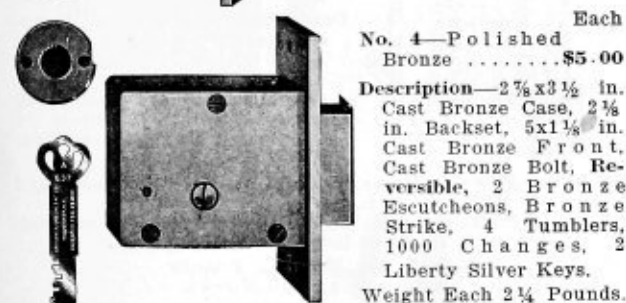
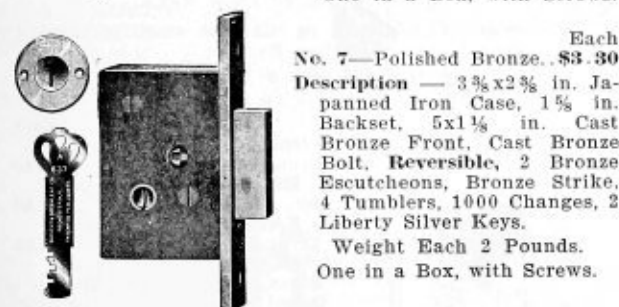
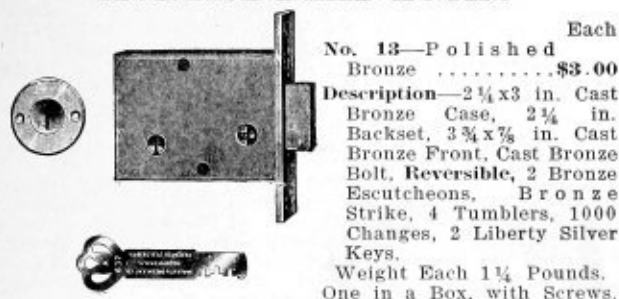
Weight Per Box $4\frac{1}{2}$ Pounds.
Three in a Box, with Screws.



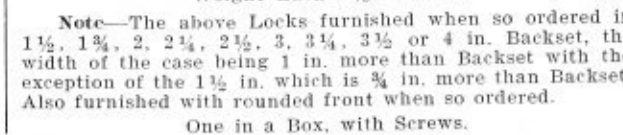
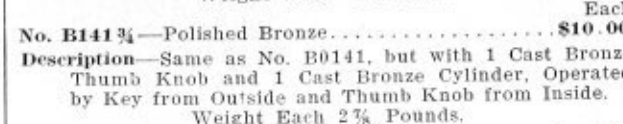
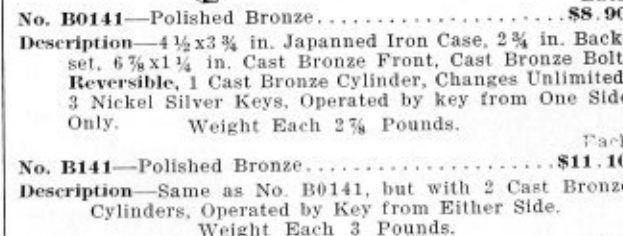
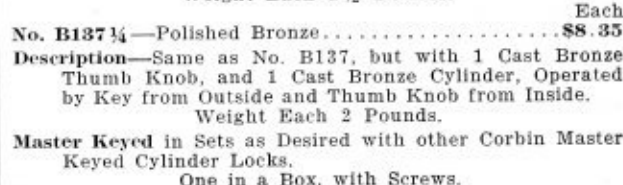
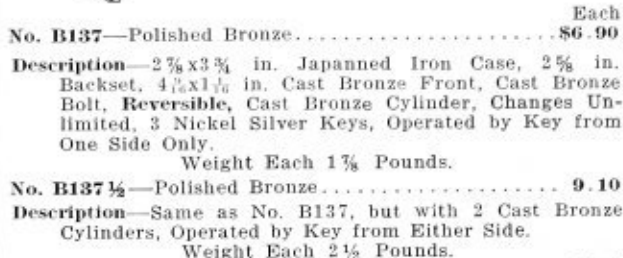
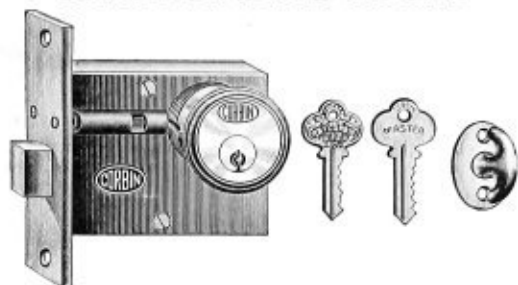
No. B0146—Polished Bronze.....Each
\$4.50

Description— $2\frac{1}{2} \times 3$ in. Japanned Iron Case, 2 in. Backset, $4\frac{3}{4} \times 1\frac{1}{4}$ in. Cast Bronze Front, Cast Bronze Bolt, Reversible, Cast Bronze Escutcheons, 3 Tumblers, 36 Changes, 2 Nickel Plated Flat Steel Keys.
Weight Each $1\frac{1}{2}$ Pounds.
Three in a Box, with Screws.

MORTISE DEAD LOCKS



MORTISE DEAD LOCKS



MORTISE KNOB LOCKS



Each
No. EA280 1/8—Dull Brass, Natural Color\$2.65

Description—3 3/8 x 1 3/8 in. Case, 1 in. Backset, 5 x 3/4 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 4 Changes, 1 Nickel Plated Steel Key.

Weight Per Box 4 1/8 Pounds.

Six in a Box, with Screws.



Each
No. EA1283—Dull Brass, Natural Color\$1.80

Description—3 3/8 x 2 1/8 in. Japaned Iron Case, 1 1/2 in. Backset, 5 1/4 x 3/8 in. Wrought Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Each
No. EA3283—Dull Brass, Natural Color\$1.20

Description—Wrought Steel Front, Cast Iron Brass Plated Bolts, Otherwise Same as No. 1283.

Weight Per Box 5 Pounds.

Six in a Box, with Screws.



Each
No. EA2785 — Dull Brass, Natural Color\$3.65

Description—3 3/8 x 3 1/4 in. Japaned Iron Case, 2 3/8 in. Backset, 5 3/4 x 1 1/4 in. Cast Bronze Rabbeted Front, 1/2 in. Rabbet, Cast Bronze Bolts, Easy Spring Latch Bolt, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Note — When Ordering, State if for Right or Left Hand Door.

Weight Per Box 9 3/8 Pounds.

Six in a Box, with Screws.



Each
No. EA2383 — Dull Brass, Natural Color\$2.85

Description—3 3/8 x 2 3/8 in. Japaned Iron Case, 1 1/2 in. Backset, 5 3/4 x 1 1/8 in. Wrought Bronze Rabbeted Front, 1/2 in. Rabbet, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Each
No. EA3383—Dull Brass, Natural Color\$1.75

Description—Wrought Steel Front, Cast Iron Brass Plated Bolts, Otherwise Same as No. 2383.

Weight Per Box 6 1/2 Pounds.

Six in a Box, with Screws.

MORTISE KNOB LOCKS



Each
No. B787—Polished Bronze\$3.20
No. R787—Antique Copper, Polished 3.20
No. EA787 — Dull Brass, Natural Color 3.20
No. SKA787—Sanded Brass, Oxidized and Relieved.... 3.35

Description—3 3/8 x 2 1/4 in. Japaned Iron Case, 1 1/2 in. Backset, 5 1/2 x 3/8 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Note—Furnished with 2 in. Backset when so ordered, width of Case 3/4 in. more than Backset.

Weight Per Box 6 Pounds.

Six in a Box, with Screws.



Each
No. B2787 — Polished Bronze\$5.40
No. R2787—Antique Copper, Polished 5.40
No. EA2787—Dull Brass, Natural Color 5.40
No. SKA2787 — Sanded Brass, Oxidized and Relieved 5.55

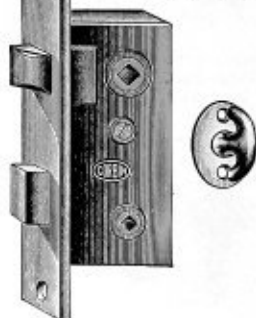
Description—3 3/8 x 2 1/4 in. Japaned Iron Case, 1 1/2 in. Backset, 5 3/4 x 1 1/4 in. Cast Bronze Rabbeted Front, 1/2 in. Rabbet, Cast Bronze Bolts, Easy Spring Latch Bolt, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Note—When Ordering, State if for Right or Left Hand Door.

Note—Furnished with 2 in. Backset when so ordered, width of Case 3/4 in. more than Backset.

Weight Per Box 8 1/4 Pounds.

Six in a Box, with Screws.



Each
No. EA174 — Dull Brass, Natural Color\$3.90

Description—4 1/4 x 2 in. Japaned Iron Case, 1 1/4 in. Backset, 6 1/4 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, Cast Bronze Thumb Knob, Dead Bolt Operated by Thumb Knob from Inside Only.

Weight Per Box, 7 1/2 Pounds.

Six in a Box, with Screws.



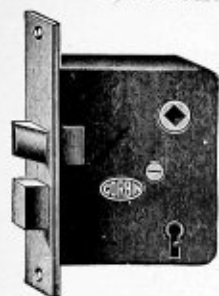
Each
No. EA01365—Dull Brass, Natural Color\$4.45

Description—4 3/4 x 2 3/8 in. Japaned Iron Case, 1 1/2 in. Backset, 6 3/4 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolt, Easy Spring Latch Bolt, Reversible, 3 Tumblers, 640 Changes, 1 Nickel Plated Steel Key.

Weight Per Box 9 1/2 Pounds.

Six in a Box, with Screws.

MORTISE KNOB LOCKS



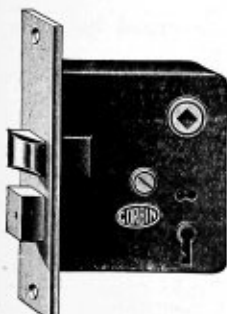
Each
No. EA1284—Dull Brass, Natural Color\$1.10

Description— $3\frac{3}{4} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{8}$ in. Backset, $5\frac{1}{4} \times \frac{7}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Each
No. R13271—Antique Copper, Polished.....\$0.60
No. EA13271—Dull Brass, Natural Color......60

Description—Wrought Steel Front, Cast Iron Brass Plated Bolts, Otherwise Same as No. 1284.

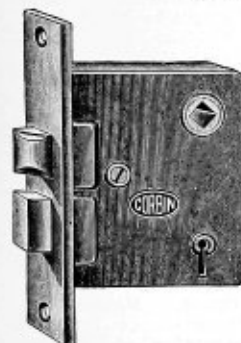
Weight Per Box 6 Pounds.
Six in a Box, with Screws.



Each
No. R785—Antique Copper, Polished\$1.45
No. EA785—Dull Brass, Natural Color 1.45
No. SKA785—Sanded Brass, Oxidized and Relieved. 1.55
No. E785—Nickel Plated, Polished 1.55
No. F785—Genuine Rustless Iron 1.45

Description— $3\frac{3}{4} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{8}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key.

Weight Per Box $6\frac{1}{2}$ Pounds.
Six in a Box, with Screws.



Each
No. EA1364—Dull Brass, Natural Color.....\$3.10

Description— $3\frac{3}{4} \times 3\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{8}$ in. Backset, $5\frac{1}{2} \times 1$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 3 Tumblers, 640 Changes, 1 Nickel Plated Steel Key.

Weight Per Box 8 Pounds.
Six in a Box, with Screws.



Each
No. EA795—Dull Brass, Natural Color.....\$2.65

Description— $4\frac{1}{8} \times 3\frac{1}{2}$ in. Japanned Iron Case, $2\frac{3}{8}$ in. Backset, $6\frac{1}{2} \times 1$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 1 Tumbler, 12 Changes, 1 Nickel Plated Steel Key.

Weight Per Box 8 Pounds.
Six in a Box, with Screws.

MORTISE KNOB LOCKS



Each
No. EA1365—Dull Brass, Natural Color\$4.45

Description— $4\frac{1}{4} \times 3\frac{1}{2}$ in. Japanned Iron Case, $2\frac{3}{8}$ in. Backset, $6\frac{1}{4} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 3 Tumblers, 640 Changes, 1 Nickel Plated Steel Key.

Weight Per Box $8\frac{3}{4}$ Pounds.
Six in a Box, with Screws.



Each
No. EA1366—Dull Brass, Natural Color.....\$5.55

Description— $4\frac{1}{4} \times 3\frac{1}{2}$ in. Japanned Iron Case, $2\frac{3}{8}$ in. Backset, $6\frac{3}{8} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 4 Tumblers, 640 Changes, 1 Nickel Plated Steel Key.

Weight Per Box $6\frac{1}{4}$ Pounds.
Three in a Box, with Screws.



Each
No. EA326—Dull Brass, Natural Color....\$4.50

Description— $4\frac{3}{4} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{8}$ in. Backset, $6\frac{1}{8} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, Cast Bronze Thumb Knob, 1 Tumbler, 24 Changes, 1 Nickel Plated Steel Key, Lower Bolt Operated by Thumb Knob from Inside.

Weight Per Box $4\frac{3}{4}$ Pounds.
Three in a Box, with Screws.

MORTISE COMMUNICATING DOOR LOCKS



Each
No. EA159 $\frac{1}{4}$ —Dull Brass, Natural Color.....\$2.75
No. E159 $\frac{1}{4}$ —Nickel Plated, Polished... 3.00

Description— $3\frac{3}{4} \times 3\frac{1}{4}$ in. Japanned Iron Case, $2\frac{3}{8}$ in. Backset, $5\frac{1}{2} \times 1\frac{1}{8}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 2 Cast Bronze Thumb Knobs, the Split Dead Bolt is Operated from Both Sides by Thumb Knob, Each Locking Against the Opposite Side.

Weight Per Box $6\frac{3}{4}$ Pounds.
Six in a Box, with Screws.

MORTISE COMMUNICATING DOOR LOCKS



Each

No. EA159 3/4—Dull Brass, Natural Color.....\$6.10

No. E159 3/4—Nickel Plated, Polished.....6.25

Description—4 1/4 x 3 1/2 in. Japanned Iron Case, 2 3/4 in. Backset, 6 1/4 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Reversible, 2 Cast Bronze Thumb Knobs, the Split Dead Bolt is Operated from Both Sides by Thumb Knobs, Each Locking Against the Opposite Side.

Weight Per Box 5 1/4 Pounds.

Three in a Box, with Screws.



Each

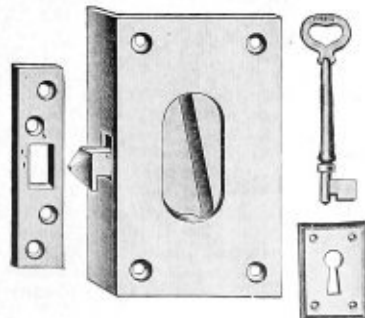
No. E0150—Nickel Plated, Polished.....\$2.25

Weight Per Box 7 Pounds.

Six in a Box, with Screws.

SLIDING DOOR LOCKS

HALF MORTISE



Each

No. A2392—Polished Brass.....\$5.40

Weight Each 1 1/4 Pounds.

One in a Box, with Screws.

MORTISE FRONT DOOR LOCKS

BIT KEYED



Each

No. EA1251—Dull Brass, Natural Color.....\$3.35

Description—4 1/2 x 3 1/2 in. Japanned Iron Case, 2 1/2 in. Backset, 7 x 1 in. Wrought Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 2 Tumblers, 48 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead Bolt by Key from Inside and Both Dead Bolt and

Latch Bolt by Same Key from Outside at All Times.

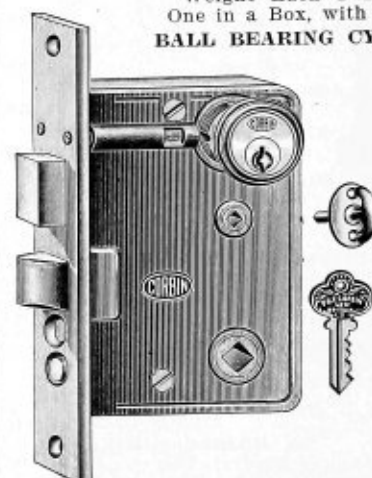
No. EA3251—Dull Brass, Natural Color.....2.10

Description—Wrought Steel Front, Brass Plated Cast Iron Bolts, Otherwise Same as No. 1251.

Weight Each 2 Pounds.

One in a Box, with Screws.

BALL BEARING CYLINDER



Each

No. EA1343—Dull Brass, Natural Color.....\$11.10

Description—5 3/8 x 3 3/8 in. Japanned Iron Case, 2 3/4 in. Backset, 7 1/2 x 1 1/8 in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, Cast Bronze Thumb Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Knob from Either Side, Except when Outside Knob is Set by Stop in Face of Lock, Dead

Bolt by Thumb Knob from Inside, and Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

Weight Each 3 1/4 Pounds.

One in a Box, with Screws.

MORTISE VESTIBULE AND OFFICE DOOR LOCKS

BIT KEYED

Each



No. EA1241—Dull Brass, Natural Color.....\$3.00

Description—4 1/4 x 3 1/4 in. Japanned Iron Case, 2 1/2 in. Backset, 6 3/8 x 1 in. Wrought Bronze Front, Cast Bronze Easy Spring Latch Bolt, Reversible, 2 Tumblers, 48 Changes, 2 Nickel Plated Steel Keys.

Operated—By Knob From Either Side and by Key from Outside at All Times. Outside Knob is Locked by Stop in Face of Lock.

Each

No. EA3241—Dull Brass, Natural Color.....\$1.75

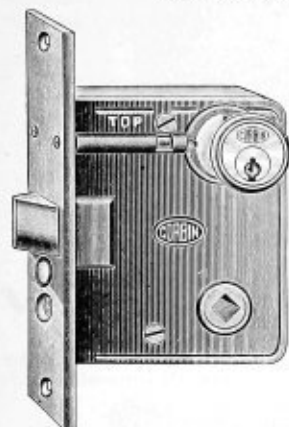
Description—Wrought Steel Front, Brass Plated Cast Iron Bolts, Otherwise Same as No. 1241.

Weight Each 1 3/4 Pounds.

One in a Box, with Screws.

MORTISE VESTIBULE AND OFFICE DOOR LOCKS

BALL BEARING CYLINDER



Each
No. EA1323 — Dull
Brass, Natural Col-
or \$9.60

Description— $4\frac{1}{2} \times 3\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, $6\frac{1}{2} \times 1\frac{1}{2}$ in. Cast Bronze Front, Cast Bronze Easy Spring Latch Bolt, Reversible, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—By Knob from Either Side, and by Key from Outside at All Times. Outside Knob is Locked by Stop in Face of Lock.

Weight Each $2\frac{1}{2}$ Pounds.
One in a Box, with Screws.

MORTISE OFFICE DOOR LOCKS

BALL BEARING CYLINDER



Each
No. EA567—Dull Brass,
Natural Color.... \$11.50

Description— $5\frac{1}{2} \times 4$ in. Japanned Iron Case, 3 in. Backset, $7\frac{1}{2} \times 1\frac{1}{4}$ in. Cast Bronze Front, Cast Bronze Anti-friction Latch Bolt, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys and 1 Nickel Silver Master Key.

Operated—By Knob from Either Side, and by Key from Outside at All Times. Outside Knob is Locked by Stop in Face.

Master Keyed in Sets as Desired with Other Corbin Master Keyed Cylinder Locks.

Note—When Ordering, State if for Right or Left Hand Door.

Weight Each $3\frac{1}{4}$ Pounds.
One in a Box, with Screws.

MORTISE STORE DOOR LOCKS

BIT KEYED



Each
No. EA0386 $\frac{1}{2}$ —Dull Brass,
Natural Color..... \$5.10

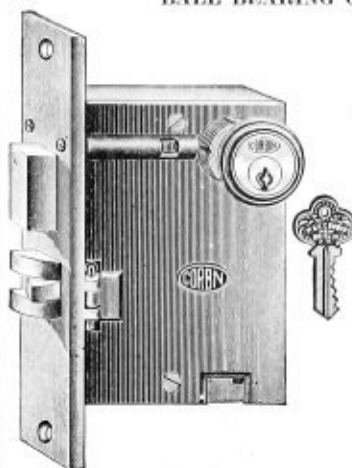
Description— $4\frac{1}{2} \times 3\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, $6\frac{1}{2} \times 1$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, 4 Tumblers, 36 Changes, 2 Nickel Plated Steel Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Each
No. EA0386 $\frac{1}{2}$ —Dull Brass, Natural Color..... \$3.70
Description—Cast Iron Front, Otherwise Same as No. 0186 $\frac{1}{2}$.
Weight Each $2\frac{1}{2}$ Pounds.
One in a Box, with Screws.

MORTISE STORE DOOR LOCKS

BALL BEARING CYLINDER



Each
No. EA0288 — Dull
Brass, Natural
Color \$11.10

Description— $5 \times 3\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, $7\frac{3}{4} \times 1\frac{1}{2}$ in. Cast Bronze Front, Cast Bronze Bolts, Anti-friction Latch Bolt, Reversible, 2 Cast Bronze Cylinders, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Either Side, Dead Bolt by Key from Either Side.

Weight Each $3\frac{3}{4}$ Lbs.

One in a Box, with Screws.



Each
No. EA1347 $\frac{1}{2}$ —Dull Brass,
Natural Color..... \$11.10

Description $5\frac{1}{4} \times 3\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, $7\frac{3}{4} \times 1\frac{1}{4}$ in. Cast Bronze Front, Cast Bronze Bolts, Anti-friction Latch Bolt, Reversible, Cast Bronze Thumb Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Either Side

Except when Outside Thumb Piece is Set by Stop in Face of Lock, Dead Bolt by Thumb Knob from Inside and Both Dead Bolt and Latch Bolt by Same Key from Outside at All Times.

Weight Each $3\frac{3}{4}$ Pounds.
One in a Box, with Screws.

MORTISE FRONT DOOR LOCKS

BALL BEARING CYLINDER



For Door Handle Outside and Knob and Escutcheon Inside

Each
No. EA1349 $\frac{1}{2}$ — Dull
Brass, Natural Col-
or \$11.10

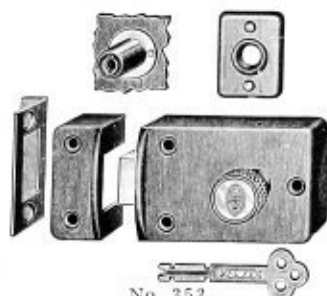
Description— $5\frac{1}{4} \times 3\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, $7\frac{3}{4} \times 1\frac{1}{4}$ in. Cast Bronze Front, Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible, Cast Bronze Thumb Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys.

Operated—Latch Bolt by Thumb Piece from Outside, Except when Set by Stop in Face, by Knob from Inside, Dead Bolt by Thumb Knob from Inside, Both Dead Bolt and Latch Bolt by Same Key from Outside.

Weight Each $3\frac{1}{2}$ Pounds.
One in a Box, with Screws.

RIM NIGHT LATCHES

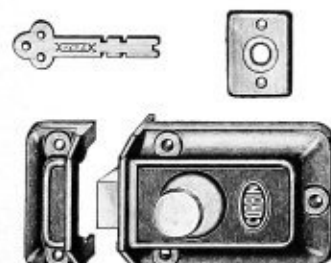
CORBIN TUBULAR



No. 353.

be Held Back by a Turn of the Knob, for Doors up to 1 1/4 in. Thick. \$0.80

Weight Each 1 1/2 Pound.
One in a Box, with Screws.

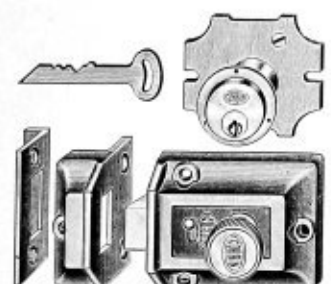


No. 0356.

Key or Holds the Bolt Retracted, for Doors up to 1 1/4 in. Thick. \$1.20

Weight Each 1 1/2 Pound.
One in a Box, with Screws.

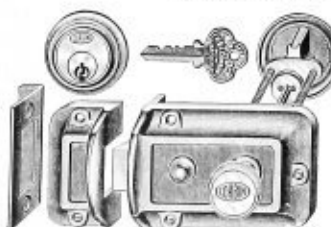
CORBIN CYLINDER



No. 0357.

Turn Knob from Inside, the Stop Inside Deadlocks Against the Key or Holds the Bolt Retracted, for Doors 3/4 to 2 in. Thick. \$2.00

Weight Each 1 1/4 Pounds.
One in a Box, with Screws.



No. 0366 1/4.

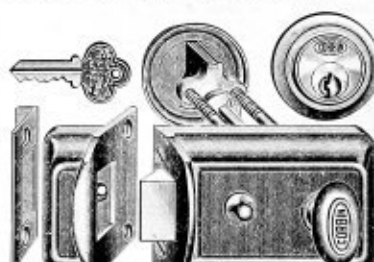
ated by Key from Outside and Turn Knob Inside, the Stop Inside Deadlocks Against the Key or Holds the Bolt Retracted, for Doors 3/4 to 2 1/2 in. Thick. \$2.10

Weight Each 1 Pound.
One in a Box, with Screws.

RIM NIGHT LATCHES

CORBIN CYLINDER

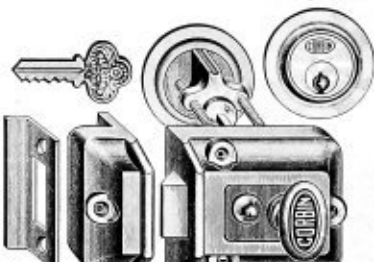
Operated by Key from Outside and Turn Knob Inside, the Stop Inside Deadlocks Against the Key or Holds the Bolt Retracted. Packed with Two Strikes, One Reverse Bevel for Doors Opening Out.



No. 474.

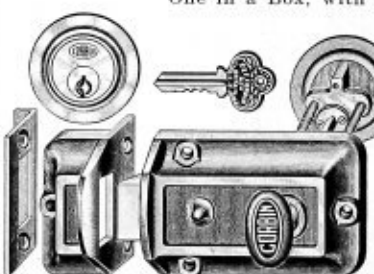
The screws in the case and strike are all concealed, and inaccessible when door is closed.

Weight Each 1 1/2 Pounds.
One in a Box, with Screws.



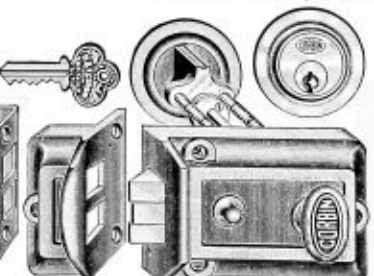
No. 456 1/4.

Weight Each 1 1/2 Pounds.
One in a Box, with Screws.



Nos. 356 and 256.
No. 256—Polished Cast Bronze Case, Otherwise Same as No. 356. 5.65

Weight Each 1 1/2 Pounds.
One in a Box, with Screws.



No. 456 3/4.

No. 456 3/4—Japanned. \$4.65
No. R456 3/4—Antique Copper. 5.00

The trip in center of latch bolt is held retracted by contact with strike and secures the latch bolt from being forced back from the outside.

Weight Each 1 1/2 Pounds.
One in a Box, with Screws.

Each
No. R474—2 1/2 x 3 1/2 in. Antique Copper Finished Iron Case, 2 1/2 in. Backset, Cast Bronze Bolt, Reversible, Wrought Bronze Turn Knob, Cast Bronze Cylinder, Changes Unlimited, Three Nickel Silver Keys, for Doors 3/4 to 2 1/2 in. Thick. \$3.80

Each
No. 456 1/4—2 1/2 x 2 7/8 in. Japanned Iron Case, 1 1/2 in. Backset, Cast Bronze Bolt, Reversible, Wrought Bronze Turn Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys, for Doors 3/4 to 2 1/2 in. Thick. \$2.55

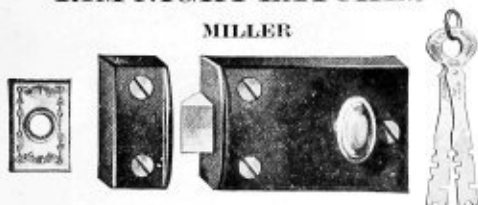
Each
No. 356—2 1/2 x 3 1/2 in. Japanned Iron Case, 2 1/2 in. Backset, Cast Bronze Bolt, Reversible, Wrought Bronze Turn Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys, for Doors 3/4 to 2 1/2 in. Thick. \$2.55

Description—2 1/2 x 3 1/2 in. Iron Case, 2 1/2 in. Backset, Cast Bronze Bolt, Reversible, Wrought Bronze Turn Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys, for Doors 3/4 to 2 1/2 in. Thick.

Each

RIM NIGHT LATCHES

MILLER



Per Dozen

- No. 64—2x3 in. Japanned Iron Case, $2\frac{1}{2}$ in. Selvedge, Brass Plated Iron Bolt, Reversible, Bronze Turn Knob and Key Plate, 2 Nickel Plated Flat Steel Keys, Operated by Key from Outside and Turn Knob Inside, Bolt May be Held Back by Extra Turn of Knob, for Doors $\frac{7}{8}$ to 1 $\frac{1}{2}$ in. Thick, 3 Reverse Strikes Packed with Each Dozen,\$9.00
Weight Per Dozen 9 $\frac{1}{4}$ Pounds.
One in a Box, With Screws.

W. B. TUBULAR



Per Dozen

- No. 157—2 $\frac{3}{4}$ x3 $\frac{3}{4}$ in. Japanned Iron Case, $2\frac{1}{2}$ in. Backset, Malleable Iron Bolt, Reversible, Bronze Escutcheon, Nickel Plated Turn Knob, 2 Flat Steel Keys, Operated by Key from Outside and Turn Knob Inside, Bolt May be Held Back by an Extra Turn of the Knob, for Doors 1 $\frac{1}{4}$ to 1 $\frac{1}{2}$ in. Thick,\$13.50

The mechanism of this lock allows the bolt to be reversed without opening the lock.

Weight Per Dozen 13 $\frac{1}{2}$ Pounds.

One in a Box, with Screws.

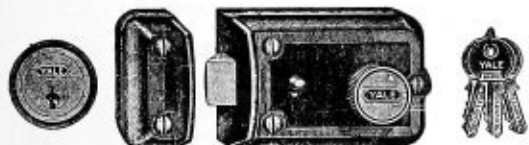
RIM SPRINGLATCHES

YALE



Each

- No. 26—2x3 $\frac{1}{4}$ in. Japanned Iron Case, $2\frac{1}{2}$ in. Backset, Brass Plated Iron Bolt, Reversible, Brass Plated Turn Knob and Key Plate, Warded, 12 Changes, 2 Nickel Plated Flat Steel Keys, Operated by Key from Outside and Turn Knob Inside, Bolt May be Held Back by Turning Knob to the Left, for Doors up to 1 $\frac{1}{4}$ in. Thick,\$1.00
Weight Each 1 Pound.
One in a Box, with Screws.



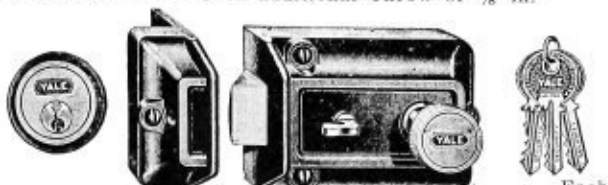
Each

- No. 36—2 $\frac{1}{4}$ x3 $\frac{1}{4}$ in. Japanned Iron Case, 2 in. Backset, Brass Plated Iron Bolt, Reversible, Brass Plated Turn Knob and Stop, Bronze Cylinder, 4 Pin Tumblers, 1500 Changes, 3 Nickel Bronze Keys, Operated by Key from Outside and Turn Knob Inside, Bolt May be Held Back by Stop, for Doors $\frac{7}{8}$ to 2 $\frac{1}{2}$ in. Thick,\$2.25
Weight Each 1 $\frac{1}{4}$ Pounds.
One in a Box, with Screws.

RIM DEADLATCHES

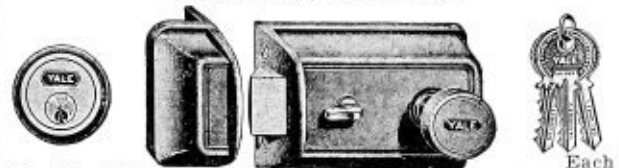
YALE MANUAL TYPE

Bolt may be Held Back by Hold Back Lever and also Deadlocked against End Pressure by Key or Knob when Deadlocked Bolt has an additional Throw of $\frac{1}{8}$ in.



Each

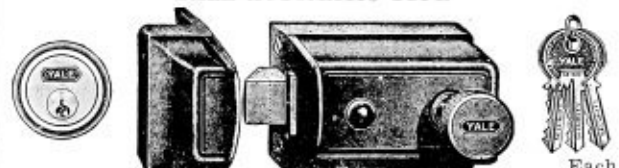
- No. 042—2 $\frac{1}{2}$ x3 $\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, Brass Bolt, Reversible, Brass Turn Knob, Bronze Cylinder, 5 Pin Tumblers, Changes Unlimited, 3 Nickel Bronze Keys, Operated by Key from Outside and Turn Knob Inside, for Doors $\frac{7}{8}$ to 2 $\frac{1}{2}$ in. Thick,\$2.50
Weight Each 1 $\frac{1}{2}$ Pounds.
One in a Box, with Screws.



Each

- No. 42—2 $\frac{3}{4}$ x3 $\frac{1}{2}$ in. Dull Brass Finished Iron Case, $2\frac{3}{4}$ in. Backset, Brass Bolt, Reversible, Brass Turn Knob, Bronze Cylinder, 5 Pin Tumblers, Changes Unlimited, 3 Nickel Bronze Keys, Operated by Key from Outside and Turn Knob Inside, for Doors $\frac{7}{8}$ to 2 $\frac{1}{2}$ in. Thick,\$3.50
Weight Each 1 $\frac{1}{2}$ Pounds.
One in a Box, with Screws.

YALE AUTOMATIC TYPE

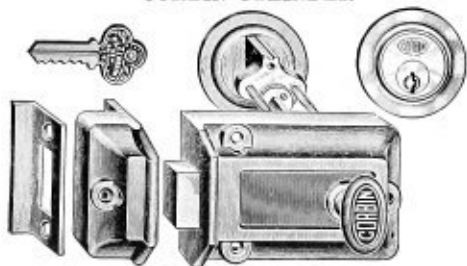


Each

- No. 44—Automatic, 2 $\frac{3}{4}$ x3 $\frac{1}{2}$ in. Dull Brass Finished Iron Case, $2\frac{3}{4}$ in. Backset, Brass Bolt, Reversible, Brass Turn Knob, Bronze Cylinder, 5 Pin Tumblers, Changes Unlimited, 3 Nickel Bronze Keys, Operated by Key from Outside and Turn Knob Inside, Bolt May be Held Back by Stop, for Doors $\frac{7}{8}$ to 2 $\frac{1}{2}$ in. Thick,\$4.50
The latch bolt has a $\frac{1}{2}$ in. projection, but when door is closed it is automatically thrown forward an additional $\frac{1}{8}$ in. into a deadlocked position.
Weight Each 1 $\frac{3}{4}$ Pounds.
One in a Box, with Screws.

RIM DEAD LOCKS

CORBIN CYLINDER



Two Strikes, One Reverse Bevel for Doors Opening Out. Operated by Key from Outside and Turn Knob Inside.

Each

- No. 360—2 $\frac{1}{2}$ x3 $\frac{3}{4}$ in. Japanned Iron Case, $2\frac{3}{4}$ in. Backset, Cast Bronze Bolt, Reversible, Cast Bronze Turn Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys,\$3.35
Weight Each 1 $\frac{1}{2}$ Pounds.
One in a Box, with Screws.

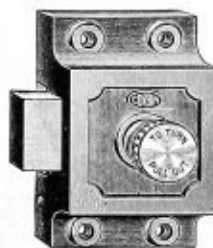
RIM DEAD LOCKS

CORBIN CYLINDER



Each
No. 1434—4x2½ in. Japanned Iron Case, 1¼ in. Backset, Cast Bronze Bolt, Reversible, Cast Bronze Turn Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys, Operated by Key from Outside and Turn Knob Inside.....\$5.35
Weight Each 2½ Pounds.

Each
No. 1434½—Operated by Key from Either Side, Otherwise Same as No. 1434.....\$6.00
Weight Each 2½ Pounds.
One in a Box, with Screws.

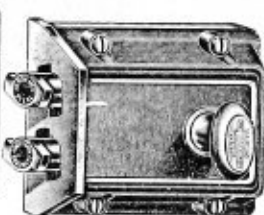


Each
No. 1431—4x2½ in. Japanned Iron Case, 1¼ in. Backset, Cast Bronze Bolt, Reversible, Cast Bronze Turn Knob, Cast Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys, Operated by Key from Outside and Turn Knob Inside.....\$4.65
Weight Each 2½ Pounds.
One in a Box, with Screws.

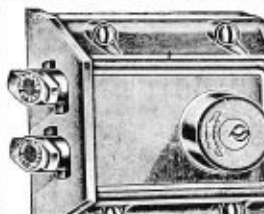
Weight Each 2½ Pounds.
One in a Box, with Screws.

KEIL CYLINDER

The Locking Bolts shoot out in a perpendicular position and revolve at right angles, locking the projection on the bolts firmly into the strike. The hardened steel insets inside the bronze bolts cannot be sawed through and give additional security.

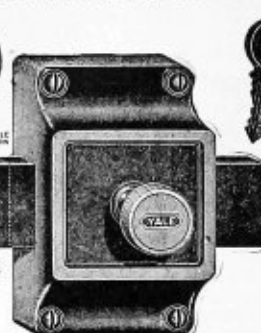


Each
No. B51000—3¾x4 in. Cast Bronze Case, 2¾ in. Backset, Bronze Bolts with Hardened Steel Inserts, Reversible, Bronze Cylinder, Changes Unlimited, 3 Nickel Silver Keys, Operated by Key from Outside and Turn Knob Inside, for Doors ¾ to 2½ in. Thick.....\$6.50
Weight Each 3¾ Pounds.
One in a Box, with Screws.

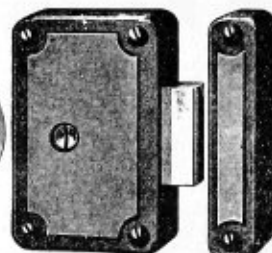


Each
No. B51001—3¾x4 in. Cast Bronze Case, 2¾ in. Backset, Bronze Bolts with Hardened Steel Inserts, Reversible, 2 Bronze Cylinders, Changes Unlimited, 3 Nickel Silver Keys, Operated from Both Sides by Key Only, for Doors ¾ to 2½ in. Thick.....\$9.00
Weight Each 3¾ Pounds.
One in a Box, with Screws

RIM DEAD LOCKS



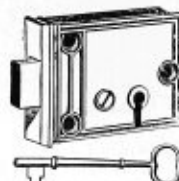
Each
No. 8—4½x2¾ in. Old Copper Finished Iron Case, 1¾ in. Backset, 1¾x¾ in. Steel Double Throw Bolt, Reversible, Cast Bronze Turn Knob, Cast Bronze Cylinder, 5 Pin Tumblers, Changes Unlimited, 3 Nickel Bronze Keys, Operated by Key from Outside and Turn Knob Inside, a Second Turn of Knob or Key Accomplishes the Double Throw.....\$5.85
Weight Each 4½ Pounds.
One in a Box, with Screws.



Each
No. 7½—4¼x2½ in. Japanned Iron Case, 1½ in. Backset, Bronze Bolt, Reversible, Bronze Escutcheon, 4 Brass Tumblers, 200 Changes, 3 Liberty Silver Keys, Operated by Key from Either Side.....\$5.00
Weight Each 2 Pounds.
One in a Box, with Screws.

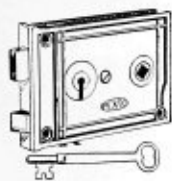


Each
No. 13½—2¼x3 in. Japanned Iron Case, 2¼ in. Backset, Brass Bolt, Reversible, Brass Escutcheons, 3 Brass Tumblers, 100 Changes, 2 Liberty Silver Keys, Operated by Key from Either Side.....\$2.25
Weight Each 1 Pound.
One in a Box, with Screws.



Per Dozen
No. 701—2¼x2¾ in. Japanned Iron Case, Iron Bolt, 12 Changes, 1 Tinned Malleable Iron Key.....\$3.80
Weight Per Dozen 9 Pounds.
One Dozen in a Box.

RIM KNOB LOCKS

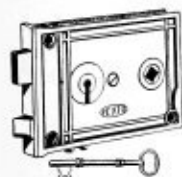


Horizontal, with Stop

- Per Dozen
 No. 506—3 1/2 x 5 in. Japanned Iron Case, Iron Bolts, Reversible, 12 Changes, 1 Nickel Plated Steel Key \$10.50
 No. 507—Brass Bolts, Otherwise Same as No. 506..... 14.70

Weight Per Dozen 23 Pounds.

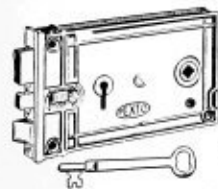
One-half Dozen in a Box.



Horizontal, with Stop

- Per Dozen
 No. 5003—3 1/2 x 5 in. Japanned Iron Case, Brass Plated Iron Bolts, Reversible, 12 Changes, 1 Brass Key..... \$10.00
 Weight Per Dozen 23 Pounds.

One-half Dozen in a Box.

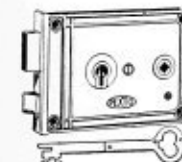


Horizontal, with Slide Bolt

- Per Dozen
 No. 561—4x6 in. Japanned Iron Case, Iron Bolts, Reversible, 12 Changes, 1 Tinned Malleable Iron Key..... \$15.25
 No. 567—Brass Bolts, Nickel Plated Steel Key, Otherwise Same as No. 561.... 19.00

Weight Per Dozen 26 Pounds.

One-quarter Dozen in a Box.



Horizontal, Folding Key

- Per Dozen
 No. 606—4x6 in. Japanned Iron Case, Iron Bolts, Reversible, Revolving Brass Bushing, 1 Tumbler, 24 Changes, 2 Nickel Plated Folding Steel Keys \$31.50

Weight Per Dozen 36 Pounds.

One-quarter Dozen in a Box.

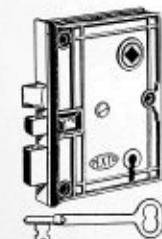


Horizontal, with Stop

- Per Dozen
 No. 040—3 1/2 x 4 1/4 in. Japanned Iron Case, Iron Bolts, Reversible, 6 Changes, 1 Dipped Iron Key \$4.25
 No. 407—Brass Bolts, 12 Changes, 1 Nickel Plated Steel Key, Otherwise Same as No. 040. 8.40

Weight Per Dozen 15 1/2 Pounds.

One-half Dozen in a Box.

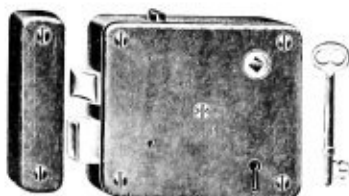


Upright, with Slide Bolt

- Per Dozen
 No. 251—4 1/4 x 3 1/2 in. Japanned Iron Case, Iron Bolts, Reversible, 12 Changes, 1 Tinned Malleable Iron Key..... \$5.80
 Weight Per Dozen 16 Pounds.

One-half Dozen in a Box.

RIM KNOB LOCKS



Horizontal, with Stop

- Per Dozen
 No. 800 1/2—4x4 1/2 in. Black Enameled Iron Case, 3 1/2 in. Backset, Heavy Polished Iron Beveled Bolts, Easy Spring Latch Bolt, Reversible, 1 Wrought Steel Rack Tumbler, 36 Changes, 1 Nickel Plated Steel Bit Key..... \$20.00
 No. 803 1/2—4x4 1/2 in. Black Enameled Iron Case, 3 1/2 in. Backset, Heavy Polished Brass Beveled Bolts, Easy Spring Latch Bolt, Reversible, 1 Wrought Steel Rack Tumbler, 36 Changes, 1 Nickel Plated Steel Bit Key..... 22.00

Weight Per Dozen 16 Pounds.

One-half Dozen in a Box.

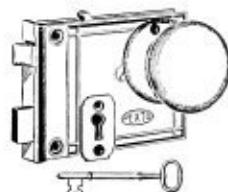
RIM KNOB LOCK SETS



With Stop

- Per Dozen Sets
 No. 506x106—Jet Knobs, Japanned Mountings.... \$13.50
 Lock—No. 506, 3 1/2 x 5 in. Japanned Iron Case, Iron Bolts, Reversible, 12 Changes, 1 Nickel Plated Steel Key.
 Weight Per Dozen Sets 34 Pounds.

One Set in a Box.



With Stop

- Per Dozen Sets
 No. 040V—Mineral Knobs, Japanned Mountings.... \$7.00
 No. 040T—Steel Knob, Japanned, Japanned Mountings 7.00
 Lock—No. 040, 3 1/2 x 4 1/4 in. Japanned Iron Case, Iron Bolts, Reversible, 6 Changes, 1 Dipped Iron Key.

Weight Per Dozen Sets 26 Pounds.

One Set in a Box.

RIM KNOB LATCHES



With Slide Bolt

- Per Dozen
 No. 34—2 3/4 x 4 in. Japanned Iron Case, Iron Bolts, Reversible, Sunk Thumb Piece..... \$4.25

Weight Per Dozen 13 Pounds.

One-half Dozen in a Box.

LEVER HANDLES



Cast Bronze

2 1/8 in. Lever, 2 1/4 x 1 1/4 in. Plate, 1/8 in. Spindle.

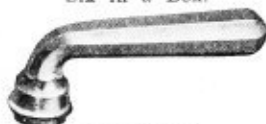
Each

No. B2417 1/8 — Polished Bronze \$1.65

No. EA2417 1/8 — Dull Brass, Natural Color..... 1.65

Weight Each 1/4 Pound.

Six in a Box.



Cast Brass

4 in. Lever, 1/8 in. Spindle.

Each

No. 210B — Polished Bronze \$2.00

No. 210DB — Dull Brass, Natural Color..... 2.00

Weight Each 1/8 Pound.

Six in a Box.



Cast Brass

1/2 in. Spindle.

No. 204B — Polished Bronze

Length Lever, Inches..... 3 4

Weight Each, Lbs..... 1/8 1/2

Each \$1.80 2.00

No. 204DB — Dull Brass, Natural Color

Length Lever, Inches..... 3 4

Each \$1.80 2.00

Six in a Box.



Cut Glass, Cast Brass Mountings

Length 4 1/4 in., 1/8 in. Spindle.

Each

No. 202B — Polished Bronze \$6.00

No. 202DB — Dull Brass, Natural Color..... 6.00

Weight Each 1/2 Pounds.

Six in a Box.

AUXILIARY SPRINGS

FOR LEVER HANDLES

Wrought Steel, Bronze Plated

Each

No. 022 1/2 — For 1/8 in. Spindles..... \$1.20

No. 023 1/2 — For 3/8 in. Spindles..... 1.20

These springs are applied to the wood under rose to hold lever handle in horizontal position. Used under roses 1 1/4 in. diameter and over.

Open Stock.

ROSES

WITH AUXILIARY SPRING

Cast Brass

Size 2 1/4 x 1 3/8 in.

Each

No. 251B — Polished Bronze..... \$0.80

No. 251DB — Dull Brass, Natural Color..... .80

Weight Each 1/8 Pound.

Twelve in a Box.



No. 251.

WITHOUT SPRING

Cast Brass

Size 2 1/4 x 1 3/8 in.

Each

No. 261B — Polished Bronze..... \$0.40

No. 261DB — Dull Brass, Natural Color..... .40

Size 1 7/8 x 1 in.



No. 261.

No. S261B — Polished Bronze40

No. S261DB — Dull Brass, Natural Color..... .40

Weight Each 1/8 Pound.

Twelve in a Box.

FLUSH CUP HANDLES

Cast Bronze

1 7/8 in. Diameter, 1/8 in. Spindle.

Each

No. EA02972 — Dull Brass,

Natural Color..... \$2.00

Weight Each 1/4 Pound.



No. 2972.

Wrought Bronze

3 in. Diameter, 1/8 in. Spindle.

Each

No. EA2972 — Dull Brass, Natural Color..... \$2.90

Weight Each 1/2 Pound.

Two in a Box, with Screws.

Cast Iron

Plate 4x3 1/2 in., Diameter Cup 2 7/8

in., 1/8 in. Spindle.

Each

No. J1973 1/2 — Japanned..... \$1.85

Weight Each 3/4 Pound.

Cast Bronze

Plate 4x3 1/2 in., Diameter Cup 2 7/8

in., 1/8 in. Spindle.

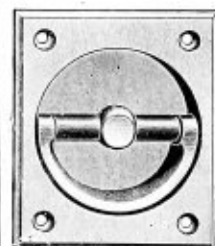
Each

No. EA2973 1/2 — Dull Brass,

Natural Color..... \$3.00

Weight Each 5/8 Pound.

Two in a Box, with Screws.



Cast Iron

Plate 7x3 in., Diameter Cup 2 3/8 in., 1/8 in. Spindle.

Each

No. J1973 3/4 — Japanned \$2.40

Weight Each 1 1/2 Pound.

Cast Bronze

Plate 7x3 in., Diameter Cup 2 3/8 in., 1/8 in. Spindle.

Each

No. EA2973 3/4 — Dull Brass, Natural

Color \$6.00

Weight Each 1 Pound.

Two in a Box, with Screws.



DOOR KNOBS

JET

Japanned Iron Mountings



- Per Dozen Pairs
No. 106—Rim, $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Straight Spindle, Cast Iron Rose and Shank \$3.00
No. 107—Mortise, $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Straight Spindle, Cast Iron Rose and Shank 3.00

Weight Per Dozen Pairs 10 Pounds.

One-half Dozen Pairs in a Box.

PORCELAIN

Japanned Iron Mountings



- Per Dozen Pairs
No. 110—Rim, $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Straight Spindle, Cast Iron Rose and Shank \$3.00
No. 111—Mortise, $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Straight Spindle, Cast Iron Rose and Shank 3.00

Weight Per Dozen Pairs 10 Pounds.

One-half Dozen Pairs in a Box.

MINERAL

Japanned Iron Mountings



- Per Dozen Pairs
No. 100—Rim, $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Straight Spindle, Cast Iron Rose and Shank \$3.00
Weight Per Dozen Pairs 10 Pounds.
One-half Dozen Pairs in a Box.

STEEL

Japanned



- Per Dozen Pairs
No. J1523 $\frac{1}{2}$ — $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, 2 in. Wrought Steel Rose \$3.35
Weight Per Dozen Pairs 7 Pounds.
One-half Dozen Pairs in a Box.

MORTISE

Wrought Steel



- $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, 2 in. Wrought Steel Rose.
Per Dozen Pairs
No. B1523 $\frac{1}{2}$ —Bronze Plated \$6.00
No. R1523 $\frac{1}{2}$ —Antique Copper, Polished 6.00
No. EA1523 $\frac{1}{2}$ —Dull Brass, Natural Color 6.00

Weight Per Dozen Pairs 7 Pounds.

One-half Dozen Pairs in a Box.

Wrought Steel



- $1\frac{3}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, $1\frac{1}{2}$ in. Wrought Steel Rose.
Per Dozen Pairs
No. EA01421—Dull Brass, Natural Color \$7.55

Wrought Bronze

- $1\frac{3}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, $1\frac{1}{2}$ in. Wrought Bronze Rose.
Per Dozen Pairs
No. EA1421—Dull Brass, Natural Color \$15.60

Weight Per Dozen Pairs 7 Pounds.

No. 01421, One-half Dozen Pairs; No. 1421, One-sixth Dozen Pairs in a Box.

DOOR KNOBS

MORTISE

Wrought Bronze

 $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, without Rose.

Per Dozen Pairs

- No. B1419 $\frac{1}{2}$ —Polished Bronze \$10.80
No. R1419 $\frac{1}{2}$ —Antique Copper, Polished 10.80
No. EA1419 $\frac{1}{2}$ —Dull Brass Natural Color 10.80
No. A1419 $\frac{1}{2}$ —Polished Brass 10.80
No. SKA1419 $\frac{1}{2}$ —Sanded Brass, Oxidized and Relieved 12.00
No. E1419 $\frac{1}{2}$ —Nickel Plated, Polished 12.00
No. F1419 $\frac{1}{2}$ —Genuine Rustless Iron 7.80
Weight Per Dozen Pairs 9 $\frac{1}{4}$ Pounds.
One-sixth Dozen Pairs in a Box, with Screws.

Cast Bronze

 $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, without Rose.

Per Dozen Pairs

- No. B1519 $\frac{1}{2}$ —Polished Bronze \$42.60
No. R1519 $\frac{1}{2}$ —Antique Copper, Polished 42.60
No. EA1519 $\frac{1}{2}$ —Dull Brass, Natural Color 42.60
No. A1519 $\frac{1}{2}$ —Polished Brass 42.60
No. SKA1519 $\frac{1}{2}$ —Sanded Brass, Oxidized and Relieved 44.40
No. E1519 $\frac{1}{2}$ —Nickel Plated, Polished 44.40
No. F1519 $\frac{1}{2}$ —Genuine Rustless Iron 31.80
Weight Per Dozen Pairs 12 Pounds.
One-sixth Dozen Pairs in a Box, with Screws.

Pressed Glass, Cast Bronze Mountings

 $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, 2 in. Cast Bronze Rose.

Per Pair

- No. B240 $\frac{1}{2}$ —Polished Bronze \$2.20
No. EA240 $\frac{1}{2}$ —Dull Brass, Natural Color 2.20
No. E240 $\frac{1}{2}$ —Nickel Plated, Polished 2.35
 $1\frac{3}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, $1\frac{1}{2}$ in. Cast Bronze Rose.
No. B240 $\frac{3}{8}$ —Polished Bronze 2.20
No. EA240 $\frac{3}{8}$ —Dull Brass, Natural Color 2.20
No. E240 $\frac{3}{8}$ —Nickel Plated, Polished 2.35
Weight Per Dozen Pairs 15 $\frac{1}{2}$ Pounds.

Pressed Glass, Wrought Bronze Mountings

 $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, 2 in. Wrought Bronze Rose.

Per Pair

- No. B340 $\frac{1}{2}$ —Polished Bronze \$1.90
No. EA340 $\frac{1}{2}$ —Dull Brass, Natural Color 1.90
No. E340 $\frac{1}{2}$ —Nickel Plated, Polished 2.00
Weight Per Dozen Pairs 15 Pounds.
One Pair in a Box, with Screws.

Pressed Opal Glass, Cast Bronze Mountings

 $2\frac{1}{4}$ in. Knob, $\frac{5}{8}$ in. Spindle, 2 in. Cast Bronze Rose.

Per Pair

- No. B249—Polished Bronze \$2.90
No. EA249—Dull Brass, Natural Color 2.90
No. E249—Nickel Plated, Polished 3.00
Weight Per Dozen Pairs 17 $\frac{1}{2}$ Pounds.
One Pair in a Box, with Screws.

PW AND PY METHODS OF MOUNTING



PW and PY Knobs use the same spindle. The PW shank is used on wrought knobs and the PY on cast knobs. The outer knob is fastened to the spindle by a pin which is covered by the thimble on the rose. The inner end of the spindle and the shank of the inner knob are threaded, and the knob is screwed down to make a close working contact. It is held in place by a cone point set screw, which enters a groove in the spindle.

KNOB SPINDLES



Wrought Steel

- No. 36— $\frac{5}{16}$ in., for Standard Shank Knobs, Weight Per Dozen 1 $\frac{1}{4}$ Lbs. \$1.20
- No. 37— $\frac{3}{8}$ in., for Standard Shank Knobs, Weight Per Dozen 2 $\frac{1}{4}$ Lbs. 2.40



Wrought Steel

- No. 36 $\frac{1}{2}$ — $\frac{5}{16}$ in., Swivel for Standard Shank Knobs, Weight Per Dozen 1 $\frac{1}{4}$ Lbs. \$3.20
- No. 37 $\frac{1}{2}$ — $\frac{3}{8}$ in., Swivel for Standard Shank Knobs, Weight Per Dozen 2 Lbs. 4.00



Wrought Steel

- No. 37 $\frac{3}{4}$ — $\frac{5}{16}$ x $\frac{3}{8}$ in. Centers, Swivel for Standard Shank Knobs, Weight Per Dozen 1 $\frac{1}{2}$ Lbs. \$4.80



Wrought Steel

- No. 056— $\frac{5}{16}$ in., for Glass Knobs, Weight Per Dozen 1 Lb. \$1.60



Wrought Steel

- No. 056 $\frac{1}{2}$ — $\frac{5}{16}$ in., for Glass Knob on One End and Standard Shank Knob on Other, Weight Per Dozen 1 $\frac{1}{2}$ Lbs. \$1.60



Wrought Steel

- No. 038 $\frac{1}{2}$ — $\frac{5}{16}$ in., Swivel for Glass Knob on One End and Standard Shank Knob on Other, Weight Per Dozen 1 $\frac{1}{4}$ Lbs. \$3.55



Wrought Steel

- No. 56— $\frac{5}{16}$ in., for PY Screwless Knobs, Weight Per Dozen 1 $\frac{1}{4}$ Lbs. \$1.60



Wrought Steel

- No. 036 $\frac{3}{4}$ — $\frac{5}{16}$ in., Swivel for PY Screwless Knobs, Weight Per Dozen 1 $\frac{1}{2}$ Lbs. \$4.00
- No. 0036 $\frac{3}{4}$ — $\frac{5}{16}$ in., Swivel for PY Screwless Knobs, Threaded Both Ends, Weight Per Dozen 1 $\frac{1}{2}$ Lbs. 4.00

KNOB SPINDLES



Wrought Steel

- No. 037 $\frac{3}{4}$ — $\frac{5}{16}$ x $\frac{3}{8}$ in. Centers, Swivel for PY Screwless Knobs, Weight Per Dozen 1 $\frac{1}{4}$ Lbs. \$4.80
- No. 0037 $\frac{3}{4}$ — $\frac{5}{16}$ x $\frac{3}{8}$ in. Centers, Swivel for PY Screwless Knobs, Threaded Both Ends, Weight Per Dozen 1 $\frac{1}{4}$ Lbs. 5.35



Wrought Steel

- No. 038— $\frac{5}{16}$ x $\frac{3}{8}$ in. Centers, Swivel for Glass or PY Knob on One End and Standard Shank Knob on Other, Weight Per Dozen 1 $\frac{1}{2}$ Lbs. \$4.80



Wrought Steel

- No. 45— $\frac{5}{16}$ in., Split Spindle for Standard Shank Knob, Used with Locks Operated by Knob from One Side Only, Weight Per Dozen $\frac{1}{8}$ Lb. \$4.00



Wrought Steel

- No. 45 $\frac{1}{2}$ — $\frac{5}{16}$ in., Split Spindle for Glass or PY Knob, Used with Locks Operated by Knob from One Side Only, Weight Per Dozen $\frac{1}{8}$ Lb. \$4.00

CLOSET KNOB SPINDLES



Wrought Steel

- $\frac{5}{16}$ in., Safety Closet Spindle, for Standard Shank Knob.

- No. EA44—Dull Brass, Natural Color. \$4.00
- Weight Per Dozen 2 $\frac{1}{4}$ Pounds.



Wrought Steel

- $\frac{5}{16}$ in., Safety Closet Spindle for Glass or PY Knob.

- No. EA44 $\frac{1}{2}$ —Dull Brass, Natural Color. \$4.00
- Weight Per Dozen 2 $\frac{3}{4}$ Pounds.

KNOB WASHERS



| Wrought Steel | | Per Pound |
|---|--|-----------|
| No. 18—For $\frac{1}{8}$ in. Spindle..... | | \$1.10 |
| No. 19—For $\frac{3}{8}$ in. Spindle..... | | 1.10 |
| One Pound in a Box. | | |

KNOB SCREWS

| | | Per Gross |
|--|--|-----------|
| No. 16— $\frac{3}{8}$ in. x No. 9, Blued Iron, for Standard Shank Knobs, Weight Gross $\frac{7}{8}$ Lb.. | | \$0.65 |
| No. 17— $\frac{3}{8}$ in. x No. 9, Polished Bronze, for Standard Shank Knobs, Weight Per Gross $\frac{7}{8}$ Lb..... | | 2.00 |



| | | Per Gross |
|--|--|-----------|
| No. 14—Steel, Bronze Plated, for PY Screw-less Knobs | | \$4.00 |
| Weight Per Gross $\frac{1}{16}$ Pound. | | |
| One Gross in a Box. | | |

LOCK SPRINGS

| No. 3—Flat Steel | | |
|--------------------|---------------|---------------|
| Width, Inches..... | $\frac{1}{4}$ | $\frac{5}{8}$ |
| Per Pound | \$1.00 | .75 |



| No. 12—Brass Extension Spring.. | | Per Dozen |
|---------------------------------|--|-----------|
| Three Dozen in a Box. | | \$1.00 |

THUMB KNOB CYLINDERS



Wrought Steel, Bronze Plated

For Thumb Knobs with $\frac{1}{8}$ in. Spindle. Each

| | |
|--|--------|
| No. 1253 —For Use in No. 253 Cylinder..... | \$0.55 |
| No. 1253 $\frac{1}{2}$ —For Use in No. 253 $\frac{1}{2}$ Cylinder..... | .90 |

These cylinders are inserted in lock case in place of cylinder where it is desired to have lock operated by thumb knob in place of key.
Open Stock.

LOCK CYLINDERS

BALL BEARING PIN TUMBLER



Cylinder.



Interior View of Rim
Cast Bronze Cylinder.

| | | Each |
|---|--|--------|
| No. 251 —Polished, for Rim Locks and Latches... | | \$1.85 |
| No. 251 $\frac{1}{2}$ —Polished, for Master Keyed Rim Locks and Latches | | 2.65 |

For Mortise Locks and Latches

No. B253—Polished Bronze

| | | | | | |
|--------------------|--------|-----------------|-----------------|-----------------|------|
| Length, Inches.... | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Each | \$2.55 | 2.55 | 2.55 | 2.55 | 2.55 |

No. R253—Antique Copper, Polished

| | | | | | |
|--------------------|--------|-----------------|-----------------|-----------------|------|
| Length, Inches.... | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Each | \$2.55 | 2.55 | 2.55 | 2.55 | 2.55 |

No. EA253—Dull Brass, Natural Color

| | | | | | |
|--------------------|--------|-----------------|-----------------|-----------------|------|
| Length, Inches.... | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Each | \$2.55 | 2.55 | 2.55 | 2.55 | 2.55 |

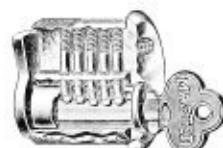
No. F253—Genuine Rustless Iron

| | | | | | |
|--------------------|--------|-----------------|-----------------|-----------------|------|
| Length, Inches.... | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Each | \$2.55 | 2.55 | 2.55 | 2.55 | 2.55 |

Open Stock.

LOCK CYLINDERS

BALL BEARING, PIN TUMBLER, FOR MASTER KEYED MORTISE LOCKS AND LATCHES



Cast Bronze

No. B253 $\frac{1}{2}$ —Polished Bronze

| | | | | | |
|--------------------|--------|-----------------|-----------------|-----------------|------|
| Length, Inches.... | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Each | \$3.35 | 3.35 | 3.35 | 3.35 | 3.35 |

No. R253 $\frac{1}{2}$ —Antique Copper, Polished

| | | | | | |
|--------------------|--------|-----------------|-----------------|-----------------|------|
| Length, Inches.... | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Each | \$3.35 | 3.35 | 3.35 | 3.35 | 3.35 |

No. EA253 $\frac{1}{2}$ —Dull Brass, Natural Color

| | | | | | |
|--------------------|--------|-----------------|-----------------|-----------------|------|
| Length, Inches.... | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Each | \$3.35 | 3.35 | 3.35 | 3.35 | 3.35 |

No. F253 $\frac{1}{2}$ —Genuine Rustless Iron

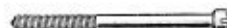
| | | | | | |
|--------------------|--------|-----------------|-----------------|-----------------|------|
| Length, Inches.... | 1 | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 |
| Each | \$3.35 | 3.35 | 3.35 | 3.35 | 3.35 |

Open Stock.

CYLINDER SCREWS



| | | Per 100 |
|--|--|---------|
| No. RS—Connecting Screws for Rim Cylinder Locks and Latches, for Any Thickness Door..... | | \$7.35 |



| | | Per 100 |
|--|--|---------|
| No. MS—Cylinder Set Screws, for Mortise Lock Cylinders | | \$10.00 |

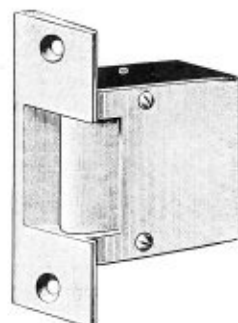
Note—In Ordering, State Backset of Lock.

ELECTRIC DOOR OPENERS



| | | Each |
|---|--|--------|
| No. 25006 — 2x3 $\frac{1}{4}$ x1 in. Japanned Iron Case, Brass Latch and Cap, Length of Mouth 1 $\frac{1}{4}$ in., for Right or Left Hand Doors | | \$5.50 |
| Weight Each 1 $\frac{1}{4}$ Pounds. | | |
| One in a Box, with Screws. | | |

| | | Each |
|--|--|--------|
| No. 25005—2x2 $\frac{5}{8}$ x1 in. Japanned Iron Case, 3 $\frac{3}{8}$ x1 $\frac{1}{4}$ in. Bronze Front, Bronze Latch, Length of Mouth 1 $\frac{1}{4}$ in., for Right or Left Hand Doors..... | | \$4.75 |
| Weight Each 1 $\frac{1}{2}$ Pounds. | | |
| One in a Box, with Screws. | | |



LOCK STRIKES



Wrought Bronze

3 3/8 x 7/8 in., Lip to Center 1 in., for No. 785 Lock.

Per Dozen
No. EA614—Dull Brass, Natural Color... \$3.35
Open Stock.

Wrought Steel

3 3/8 x 7/8 in., Lip to Center 1 in., for Lock No. 13271.

Per Dozen
No. Y609—Amber Bronzed \$1.35
No. R609—Antique Copper 1.80
No. EA609—Dull Brass, Natural Color... 1.80
Open Stock.



Wrought Bronze

4 1/4 x 1 1/8 in., Lip to Center 1 1/8 in., for Lock No. 1365.

Per Dozen
No. EA616—Dull Brass, Natural Color... \$6.65

4 3/8 x 1 in., Lip to Center 1 1/2 in., for Lock No. 0186 1/2.

No. EA618—Dull Brass, Natural Color... 7.35

Wrought Steel

4 3/8 x 1 in., Lip to Center 1 1/2 in., for Lock No. 0386 1/2.

Per Dozen
No. EA617—Dull Brass, Natural Color... \$2.65
Open Stock.



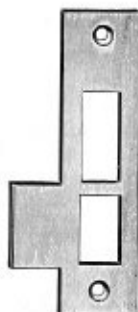
Wrought Bronze

4 1/2 x 1 1/8 in., Lip to Center 1 1/4 in., for Lock No. 1343.

Per Dozen
No. EA638—Dull Brass, Natural Color \$6.65

5 1/2 x 1 1/8 in., Lip to Center 1 1/2 in., for Locks Nos. 1347 1/2 and 0288.

No. EA624—Dull Brass, Natural Color 13.35
Open Stock.



Cast Iron

For Rim Locks, Latches and Night Latches.

Per Dozen
No. 411—Japanned, for 3 1/2 in. Locks... \$0.75
No. 606—Japanned, for 4 in. Locks... .75
Open Stock.



KEY HOLE GUARDS

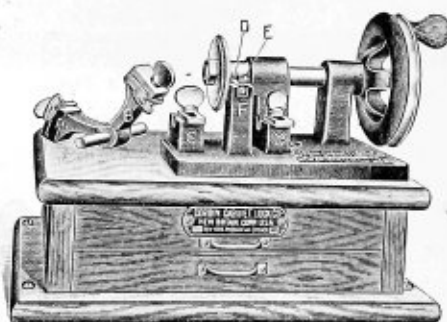


Per Dozen
Travelers Companion—Length 3 in. Over All, White Metal Shell, Nickel Silver Key... \$18.00

To block keyhole insert guard, give key a quarter turn to the right and remove the key. Owing to the pin tumbler mechanism the guard can only be removed with the key.

One Dozen in a Box.

KEY DUPLICATING MACHINES



Automatic

9x6 in. x 5 1/2 in. High, Mounted on a Handsomely Finished Hardwood Cabinet 13 1/2 x 12 1/2 x 4 1/2 in. High, Containing Two Drawers for Locksmith's Repair Tools and Assorted Blanks. May be Operated by Either Hand or Belt Power.

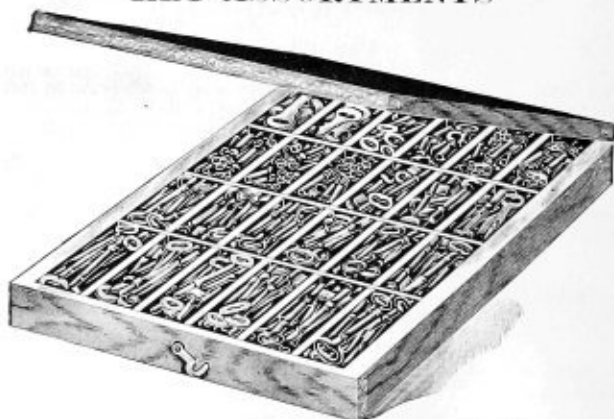
Each
No. 9101—Assortment Consists of One Key Biting Machine with File Cutter, One Oak Cabinet and One Gross Assorted Pin Tumbler Blanks... \$45.00

Important—Keys irregular in form as Yale, Eagle and Lockwood, cannot be held firmly in the vise without blocking. Small wires of different sizes are packed in the Cabinet with the key assortment for this purpose. A wire of the correct size placed in the groove of the blank will make the surface even so that the vise will hold it firmly. This is only necessary with the blank which is to be cut. Some small keys require blocking from the back in order to bring them high enough to cut without cutting into the vise. Small flat wires will be found in the cabinet for this purpose.

Clamp key blank to be bitted in vise (A). Place key vise into bearing (C), sliding caps over vise shaft and clamping so that shaft moves freely without play.

To Operate place left hand on vise (B), in which pattern key is clamped, and with the right hand revolve cutter. While cutter is revolving move vise fixture back and forth slowly from left to right, at the same time bearing down toward gauge D. Continue this movement until cuts in the pattern key are duplicated in the blank and the file revolves without cutting. After removing key from vise remove the slight burrs which has been thrown up so that key will slide easily into the lock.

KEY ASSORTMENTS



Per Assortment
No. 108—Consists of 1 Gross Assorted Till, Trunk, Padlock, and Door Keys and Blanks, in a 15x 10x1 3/4 in. Cabinet... \$5.00

KEY BLANKS

Cuts Full Size.



No. 4192.



No. 4193.



No. 8563.



No. 4195.



No. 8637.



No. 8673.

| | | |
|----------------------------------|-----------|--------|
| No. 4192—Cabinet Key Blanks..... | Per Dozen | \$1.00 |
| No. 4193—Cabinet Key Blanks..... | | 1.00 |
| No. 8563—Cabinet Key Blanks..... | | 1.00 |

| | | |
|----------------------------------|-----------|--------|
| No. 4195—Cabinet Key Blanks..... | Per Dozen | \$1.00 |
| No. 8637—For Penn Cylinders..... | | 1.00 |
| No. 8673—Cabinet Key Blanks..... | | 1.00 |



No. 8684.



No. 4199.



No. 4197.



No. 8639.



No. 08601.



No. 8600.

| | | |
|----------------------------------|-----------|--------|
| No. 8684—Cabinet Key Blanks..... | Per Dozen | \$1.00 |
| No. 4199—Cabinet Key Blanks..... | | 1.00 |
| No. 4197—Cabinet Key Blanks..... | | 1.00 |

| | | |
|---|-----------|--------|
| No. 8639—For Russell and Erwin Cylinders..... | Per Dozen | \$1.00 |
| No. 08601—Cabinet Key Blanks..... | | 1.00 |
| No. 8600—Cabinet Key Blanks..... | | 1.00 |



No. 8625A.



No. 8621.



No. 8624L.



No. 8624.



No. 8635 1/2.



No. 8621D.

| | | |
|--------------------------------------|-----------|--------|
| No. 8625A—For Barrows Cylinders..... | Per Dozen | \$1.00 |
| No. 8621—For Lockwood Cylinders..... | | 1.00 |
| No. 8624L—For Sargent Cylinders..... | | 1.00 |

| | | |
|---|-----------|--------|
| No. 8624—For Sargent Cylinders..... | Per Dozen | \$1.00 |
| No. 8635 1/2—For Reading Cylinders..... | | 1.00 |
| No. 8621D—For Lockwood Cylinders..... | | 1.00 |

KEY BLANKS

Cuts Full Size.



No. 8640.



No. 8635.



No. 4196.



No. 8618.



No. 8632.



No. 8613

| | Per Dozen | | Per Dozen |
|---|-----------|----------------------------------|-----------|
| No. 8640—For Russell and Erwin Cylinders..... | \$1.00 | No. 8618—Cabinet Key Blanks..... | \$1.00 |
| No. 8635—For Reading Cylinders..... | 1.00 | No. 8632—Cabinet Key Blanks..... | 1.00 |
| No. 4196—Cabinet Key Blanks..... | 1.00 | No. 8613—Cabinet Key Blanks..... | 1.00 |



No. 4196A.



No. 4197A.



No. 10.



No. X210.



No. 8.



No. 17.

| | Per Dozen | | Per Dozen |
|-----------------------------------|-----------|---|-----------|
| No. 4196A—Cabinet Key Blanks..... | \$1.00 | No. X210—For Ignition and Transmission Locks..... | \$1.00 |
| No. 4197A—Cabinet Key Blanks..... | 1.00 | No. 8—For Yale Cylinders..... | 1.00 |
| No. 10—For Yale Cylinders..... | 1.00 | No. 17—For Yale Cylinders..... | .80 |



No. 14.



No. 16.



No. 6.



No. 115.



No. 68.

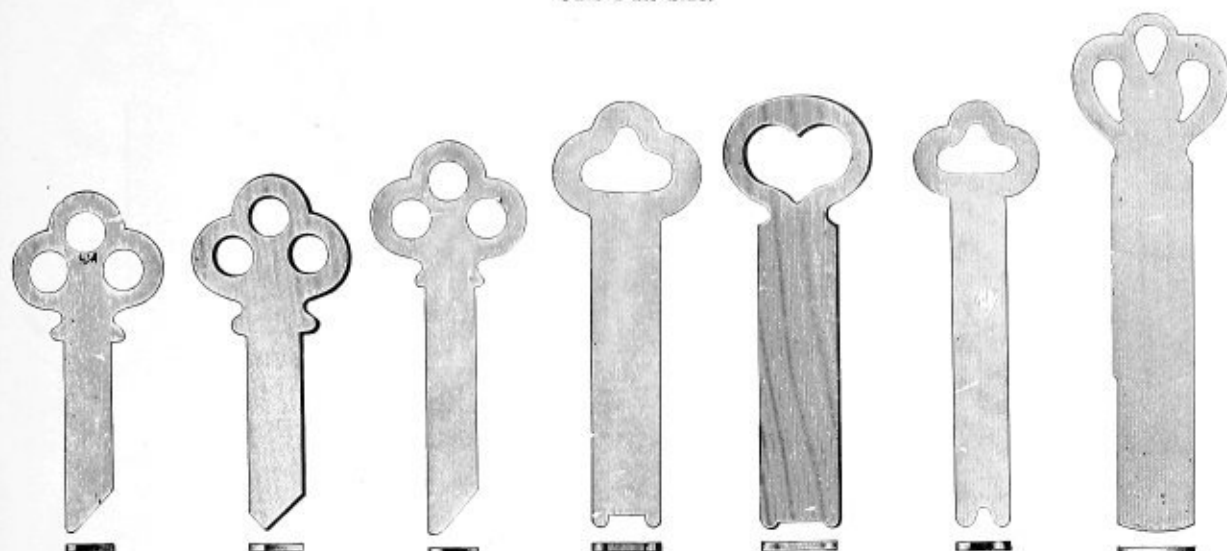


No. 1.

| | Per Dozen | | Per Dozen |
|--------------------------------|-----------|--------------------------------|-----------|
| No. 14—For Yale Cylinders..... | \$0.80 | No. 115—For Yale Padlocks..... | \$0.80 |
| No. 16—For Yale Cylinders..... | .80 | No. 68—For Yale Padlocks..... | .80 |
| No. 6—For Yale Cylinders..... | .80 | No. 1—For Yale Cylinders..... | .50 |

KEY BLANKS

Cuts Full Size.



No. 8501.

No. 8502.

No. 8500.

No. 8489.

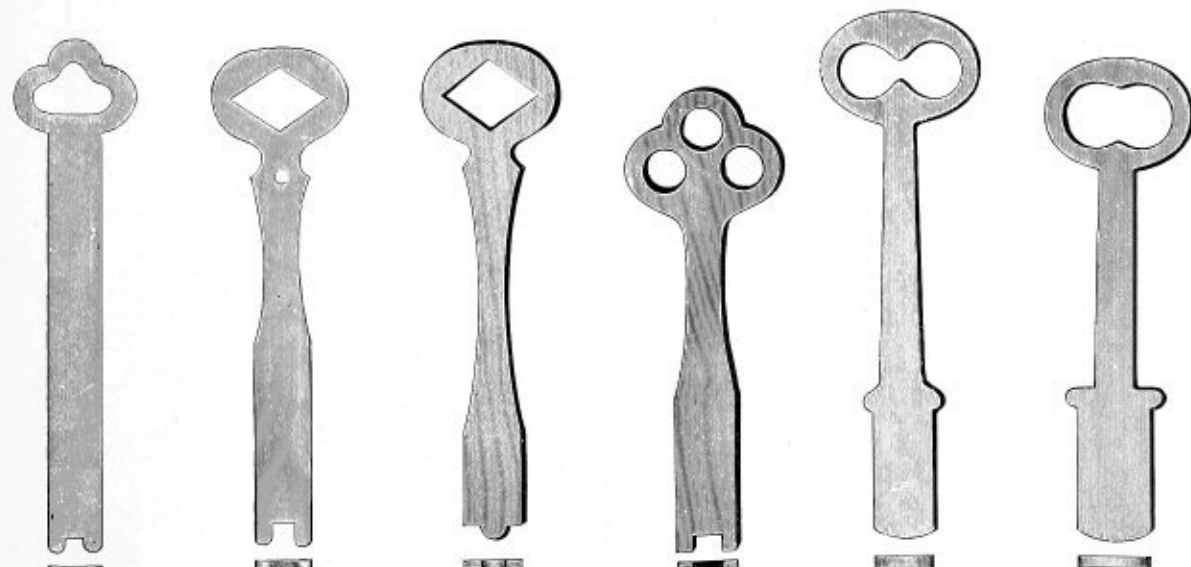
No. 8460.

No. 8487.

No. 8442.

| | Per Dozen |
|--|-----------|
| No. 8501—Bright Steel Door Key Blanks..... | \$0.50 |
| No. 8502—Bright Steel Door Key Blanks..... | .50 |
| No. 8500—Bright Steel Door Key Blanks..... | .50 |

| | Per Dozen |
|--|-----------|
| No. 8489—Bright Steel Door Key Blanks..... | \$0.50 |
| No. 8460—Bright Steel Door Key Blanks..... | .50 |
| No. 8487—Bright Steel Door Key Blanks..... | .50 |
| No. 8442—Bright Steel Door Key Blanks..... | .50 |



No. 8486.

No. 8476.

No. 8484.

No. 8451.

No. 8416.

No. 8434.

| | Per Dozen |
|--|-----------|
| No. 8486—Bright Steel Door Key Blanks..... | \$0.50 |
| No. 8476—Bright Steel Door Key Blanks..... | .50 |
| No. 8484—Bright Steel Door Key Blanks..... | .50 |

| | Per Dozen |
|--|-----------|
| No. 8451—Bright Steel Door Key Blanks..... | \$0.50 |
| No. 8416—Bright Steel Door Key Blanks..... | .50 |
| No. 8434—Bright Steel Door Key Blanks..... | .50 |



No. 8413.

No. 8419.

| | Per Dozen |
|--|-----------|
| No. 8413—Bright Steel Door Key Blanks..... | \$0.50 |

| | Per Dozen |
|--|-----------|
| No. 8419—Bright Steel Door Key Blanks..... | \$0.50 |

KEY BLANKS

Cuts Full Size.



No. 8681.



No. 4103B.



No. 4113B.



No. 4141B.



No. 4117B.



No. 4143B.

No. 8681 —Nickel Silver Cabinet Key Blanks.....\$1.00
 No. 4103B—Bright Steel Cabinet Key Blanks..... .50
 No. 4113B—Bright Steel Cabinet Key Blanks..... .50

Per Dozen
 No. 4141B—Bright Steel Cabinet Key Blanks.....\$0.50
 No. 4117B—Bright Steel Cabinet Key Blanks..... .50
 No. 4143B—Bright Steel Cabinet Key Blanks..... .50



No. 4120B.



No. 4136 1/2 B.



No. 4121B.



No. 4118B.



No. 4122B.



No. 4757.

Per Dozen
 No. 4120B —Bright Steel Cabinet Key Blanks.....\$0.50
 No. 4136 1/2 B—Bright Steel Cabinet Key Blanks..... .50
 No. 4121B —Bright Steel Cabinet Key Blanks..... .50

Per Dozen
 No. 4118B—Bright Steel Cabinet Key Blanks.....\$0.50
 No. 4122B—Bright Steel Cabinet Key Blanks..... .50
 No. 4757 —Bright Steel Cabinet Key Blanks..... .50



No. 4151.



No. 4742.



No. 4743.



No. 4128B.



No. 4133B.

Per Dozen
 No. 4151 —Bright Steel Cabinet Key Blanks.....\$0.50
 No. 4742 —Bright Steel Cabinet Key Blanks..... .50
 No. 4743 —Bright Steel Cabinet Key Blanks..... .50
 No. 4128B—Bright Steel Cabinet Key Blanks..... .50
 No. 4133B—Bright Steel Cabinet Key Blanks..... .50

KEYS AND KEY BLANKS

Cuts Full Size.



No. 4506.



No. 4251.



No. 4253.



No. 4601K.



No. 4603.



No. 4000.

| Per Dozen | | | Per Dozen | | |
|---|--------|--|--|--------|--|
| No. 4506—Malleable Iron Cabinet Key Blanks..... | \$0.60 | | No. 4601K—Malleable Iron Cabinet Keys..... | \$0.60 | |
| No. 4251—Wrought Steel Cabinet Key Blanks..... | .60 | | No. 4603—Malleable Iron Cabinet Keys..... | .60 | |
| No. 4253—Wrought Steel Cabinet Key Blanks..... | .60 | | No. 4000—Polished Bronze Cabinet Key Blanks... | 1.50 | |



No. 4604.



No. 4605.



No. 4606.



No. 4693K.



No. 4001.

| Per Dozen | | | Per Dozen | | |
|---|--------|--|--|--------|--|
| No. 4604—Malleable Iron Cabinet Keys..... | \$0.60 | | No. 4693K—Malleable Iron Cabinet Keys..... | \$0.60 | |
| No. 4605—Malleable Iron Cabinet Key Blanks..... | .60 | | No. 4001—Polished Bronze Cabinet Key Blanks... | 1.50 | |
| No. 4606—Malleable Iron Cabinet Key Blanks..... | .60 | | | | |



No. 4255.



No. 4204



No. 4491.



No. 4493.



No. 4414.

| Per Dozen | | | Per Dozen | | |
|---|--------|--|---|--------|--|
| No. 4255—Wrought Steel Cabinet Key Blanks..... | \$1.00 | | No. 4493—Malleable Iron Cabinet Key Blanks..... | \$0.80 | |
| No. 4204—Wrought Steel Cabinet Key Blanks..... | 1.00 | | No. 4414—Malleable Iron Cabinet Key Blanks..... | .80 | |
| No. 4491—Malleable Iron Cabinet Key Blanks..... | .80 | | | | |

KEY BLANKS

Cuts Full Size.



No. 4436.



No. 4416.



No. 4064.



No. 4064 1/2

No. 4436—Malleable Iron Cabinet Key Blanks.....**\$0.80**
 No. 4416—Malleable Iron Cabinet Key Blanks.....**.80**

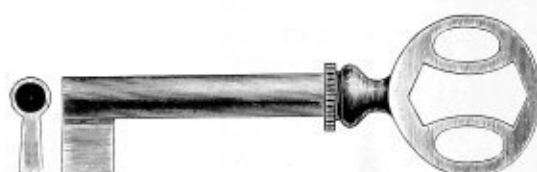
Per Dozen

No. 4064 —Polished Bronze Cabinet Key Blanks..**\$1.50**
 No. 4064 1/2—Polished Bronze Cabinet Key Blanks..**1.50**

Per Dozen



No. 4002.



No. 4003.

No. 4002—Polished Bronze Cabinet Key Blanks....**\$1.50**

Per Dozen

No. 4003—Polished Bronze Cabinet Key Blanks....**\$1.50**

Per Dozen

TRUNK KEYS AND BLANKS

Cuts Full Size.



No. 5216.



No. 5111.



No. 5217.



No. 5110.



No. 5114.



No. 5101.

No. 5216—Malleable Iron Trunk Keys.....**\$0.60**
 No. 5111—Malleable Iron Trunk Key Blanks.....**.60**
 No. 5217—Malleable Iron Trunk Keys.....**.60**

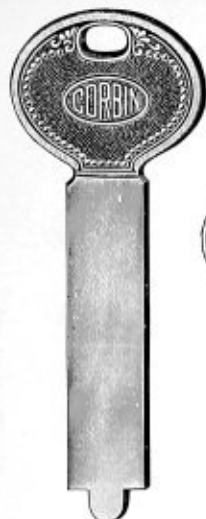
Per Dozen

No. 5110—Malleable Iron Trunk Key Blanks.....**\$0.60**
 No. 5114—Wrought Steel Trunk Key Blanks.....**1.00**
 No. 5101—Wrought Steel Trunk Key Blanks.....**1.00**

Per Dozen

KEY BLANKS

Cuts Full Size.



No. 5878.



No. 5875.



No. 5873.



No. 5869.



No. 8714.



No. 8713.



No. 8712.

Per Dozen

No. 5878—Nickel Silver Padlock Key Blanks.....\$1.00
 No. 5875—Nickel Silver Padlock Key Blanks..... 1.00
 No. 5873—Nickel Silver Padlock Key Blanks..... 1.00
 No. 5869—Nickel Silver Padlock Key Blanks..... 1.00

Per Dozen

No. 8714—Bright Steel Padlock Key Blanks.....\$0.50
 No. 8713—Bright Steel Padlock Key Blanks..... .50
 No. 8712—Bright Steel Padlock Key Blanks..... .50



No. 8732.



No. 5549.



No. 5549 1/2.



No. 5549 1/2.



No. 5549 3/4.



No. 8762.

Per Dozen

No. 8732 —Bright Steel Padlock Key Blanks.....\$0.60
 No. 5549 —Bright Steel Padlock Key Blanks..... .50
 No. 5549 1/2 —Bright Steel Padlock Key Blanks..... .50

Per Dozen

No. 5549 1/2 —Bright Steel Padlock Key Blanks.....\$0.50
 No. 5549 3/4 —Bright Steel Padlock Key Blanks..... .50
 No. 8762 —Bright Steel Padlock Key Blanks..... .50



No. 5539.



No. 8683.



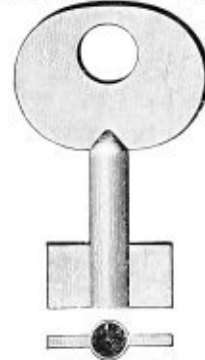
No. 5453.



No. 5538.



No. 5566.



No. 5566A.

Per Dozen

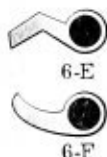
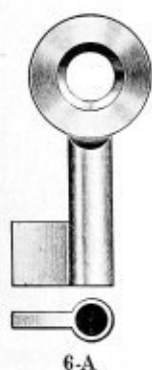
No. 5539—Bright Steel Padlock Key Blanks.....\$0.50
 No. 8683—Nickel Silver Padlock Key Blanks..... 1.00
 No. 5453—Bright Steel Padlock Key Blanks..... .50

Per Dozen

No. 5538 —Bright Steel Padlock Key Blanks.....\$0.50
 No. 5566 —Wrought Steel Padlock Key Blanks... 1.00
 No. 5566A—Wrought Steel Padlock Key Blanks... 1.00

KEY BLANKS

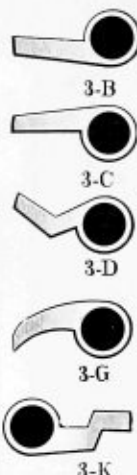
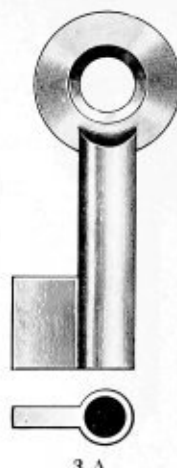
Cuts Full Size.



6-F



5-F



3-C

3-D

3-G

3-K

Brass

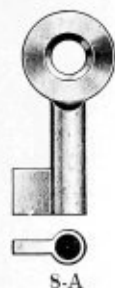
Brass

Per Dozen

Per Dozen

| | |
|--|--------|
| No. 6A—Large Barrel, for 1 3/4 and 2 in. Padlocks..... | \$1.00 |
| No. 6E—Large Barrel, for 1 3/4 and 2 in. Padlocks..... | 1.00 |
| No. 6F—Large Barrel, for 1 3/4 and 2 in. Padlocks..... | 1.00 |
| No. 5A—Small Barrel, for 2 1/4 in. Padlocks..... | 1.00 |
| No. 5B—Small Barrel, for 2 1/4 in. Padlocks..... | 1.00 |
| No. 5E—Small Barrel, for 2 1/4 in. Padlocks..... | 1.00 |
| No. 5F—Small Barrel, for 2 1/4 in. Padlocks..... | 1.00 |

| | |
|--|--------|
| No. 5J—Small Barrel, for 2 1/4 in. Padlocks..... | \$1.00 |
| No. 3A—Small Barrel, for 2 1/2 in. Padlocks..... | 1.50 |
| No. 3B—Small Barrel, for 2 1/2 in. Padlocks..... | 1.50 |
| No. 3C—Small Barrel, for 2 1/2 in. Padlocks..... | 1.50 |
| No. 3D—Small Barrel, for 2 1/2 in. Padlocks..... | 1.50 |
| No. 3G—Small Barrel, for 2 1/2 in. Padlocks..... | 1.50 |
| No. 3K—Small Barrel, for 2 1/2 in. Padlocks..... | 1.50 |



Brass



Brass

Per Dozen

Per Dozen

| | |
|------------------------------------|--------|
| No. 8A—For 1 1/2 in. Padlocks..... | \$1.00 |
| No. 8B—For 1 1/2 in. Padlocks..... | 1.00 |
| No. 8D—For 1 1/2 in. Padlocks..... | 1.00 |
| No. 8F—For 1 1/2 in. Padlocks..... | 1.00 |

| | |
|--|--------|
| No. 7A—Small Barrel, for 1 3/4 and 2 in. Padlocks..... | \$1.00 |
| No. 7J—Small Barrel, for 1 3/4 and 2 in. Padlocks..... | 1.00 |
| No. 4A—Large Barrel, for 2 1/4 in. Padlocks..... | 1.50 |
| No. 4J—Large Barrel, for 2 1/4 in. Padlocks..... | 1.50 |

SUIT CASE KEYS

Cuts Full Size.

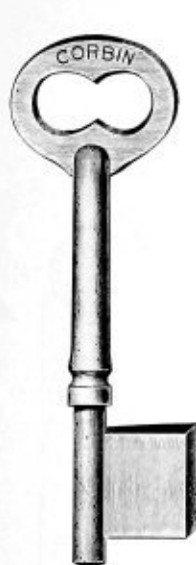
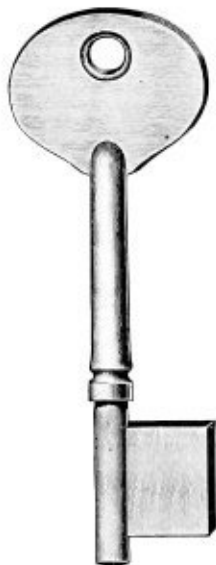
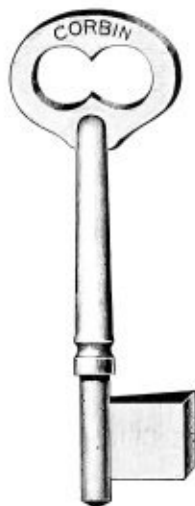


No. 93 Assortment—Consists of 3 Dozen Assorted Suit Case Keys as Illustrated.....**\$1.00**

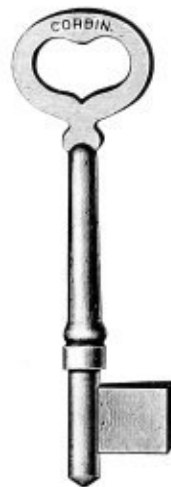
Per Assortment

KEYS AND KEY BLANKS

Cuts Full Size.

No. 80 $\frac{1}{4}$.No. 080 $\frac{1}{4}$.No. 80 $\frac{3}{4}$.

No. 181

No. 179 $\frac{3}{4}$.

| | Per Dozen |
|--|-----------|
| No. 80 $\frac{1}{4}$ —Nickel Plated Steel Door Key Blanks.. | \$2.70 |
| No. 080 $\frac{1}{4}$ —Nickel Plated Steel Master Key Blanks.. | 3.60 |
| No. 80 $\frac{3}{4}$ —Nickel Plated Steel Door Key Blanks.. | 1.20 |

| | Per Dozen |
|--|-----------|
| No. 181 —Nickel Plated Steel Door Key Blanks.. | \$1.20 |
| No. 179 $\frac{3}{4}$ —Steel, Nickel Plated, Cut for No. 13271 Lock, 1 to 12 Changes..... | 2.16 |
| No. B179 $\frac{3}{4}$ —Same as No. 179 $\frac{3}{4}$, Cut for Lock No. 785, 1 to 36 Changes..... | 2.16 |



No. 1.



No. 3.



No. 4.

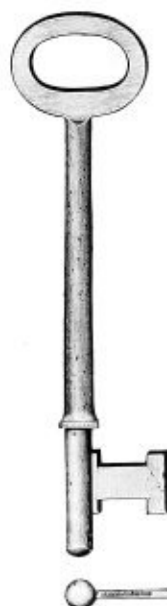


No. 5.

| | Per Dozen |
|------------------------------------|-----------|
| No. 1—Iron Keys for Rim Locks..... | \$0.50 |
| No. 3—Iron Keys for Rim Locks..... | .50 |
| No. 4—Iron Keys for Rim Locks..... | .50 |
| No. 5—Iron Keys for Rim Locks..... | .50 |



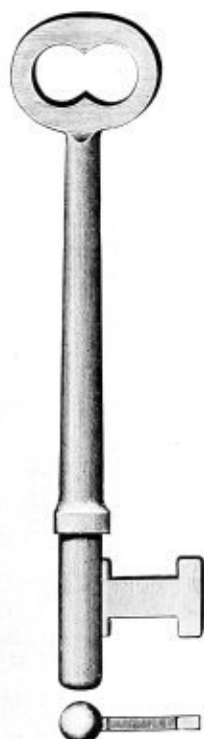
No. 7792.

No. 7792 $\frac{1}{2}$.No. 7792 $\frac{1}{2}$ C.

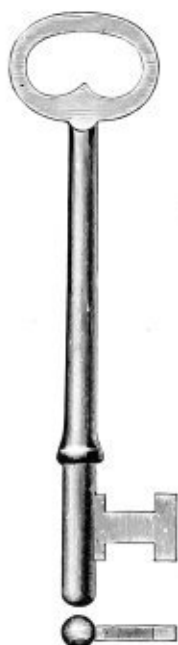
| | Per Dozen |
|---|-----------|
| No. 7792 —Nickel Plated Malleable Key Blanks.. | \$0.50 |
| No. 7792 $\frac{1}{2}$ —Nickel Plated Malleable Key Blanks.. | .50 |
| No. 7792 $\frac{1}{2}$ C—Nickel Plated Malleable Key Blanks.. | .50 |

KEY BLANKS

Cuts Full Size.



No. 7700A.



No. 7790.



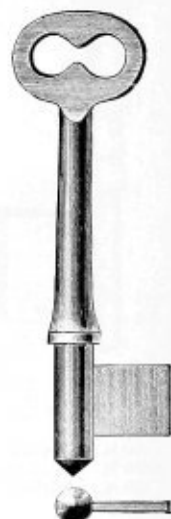
No. 7791.



No. 7631.



No. 7906.



No. 7762.

| | Per Dozen |
|---|-----------|
| No. 7700A—Nickel Plated Malleable Iron..... | \$0.50 |
| No. 7790 —Nickel Plated Malleable Iron..... | .50 |
| No. 7791 —Nickel Plated Malleable Iron..... | .50 |

| | Per Dozen |
|--|-----------|
| No. 7631—Nickel Plated Malleable Iron..... | \$0.50 |
| No. 7906—Nickel Plated Malleable Iron..... | .50 |
| No. 7762—Nickel Plated Malleable Iron..... | .50 |



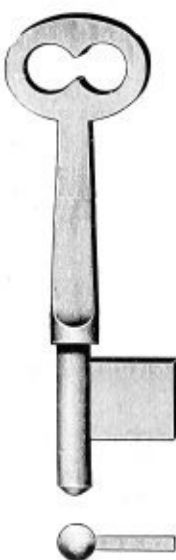
No. 7768.



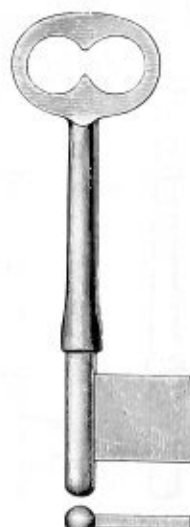
No. 8172.



No. 7909.



No. 7670.



No. 7904.



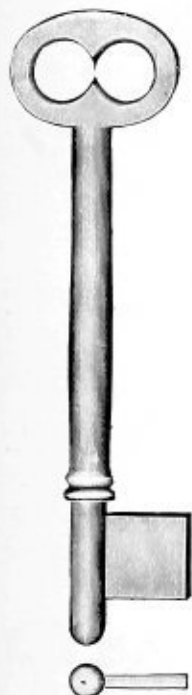
No. 7740.

| | Per Dozen |
|--|-----------|
| No. 7768—Nickel Plated Malleable Iron..... | \$0.50 |
| No. 8172—Nickel Plated Malleable Iron..... | .50 |
| No. 7909—Nickel Plated Malleable Iron..... | .50 |

| | Per Dozen |
|--|-----------|
| No. 7670—Nickel Plated Malleable Iron..... | \$0.50 |
| No. 7904—Nickel Plated Malleable Iron..... | .50 |
| No. 7740—Nickel Plated Malleable Iron..... | .50 |

KEY BLANKS

Cuts Full Size.



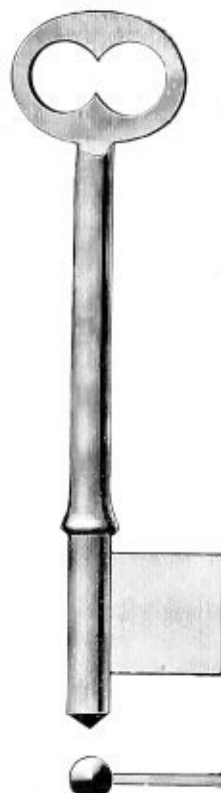
No. 7725



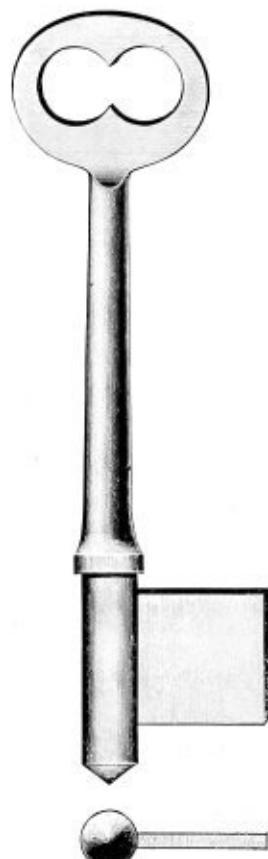
No. 7701



No. 7700



No. 7519



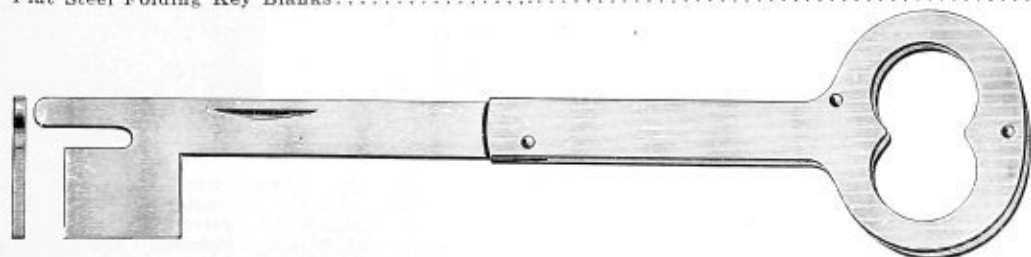
No. 7518

| | Per Dozen |
|--|-----------|
| No. 7725—Nickel Plated Malleable Iron..... | \$0.60 |
| No. 7701—Nickel Plated Malleable Iron..... | .60 |
| No. 7700—Nickel Plated Malleable Iron..... | .70 |

| | Per Dozen |
|--|-----------|
| No. 7519—Nickel Plated Malleable Iron..... | \$1.00 |
| No. 7518—Nickel Plated Malleable Iron..... | 1.00 |



| | Per Dozen |
|---|-----------|
| No. 6837—Flat Steel Folding Key Blanks..... | \$3.00 |



| | Per Dozen |
|---|-----------|
| No. 6830—Flat Steel Folding Key Blanks..... | \$3.00 |

CHEST LOCKS

Cuts Half Size.



Per Dozen

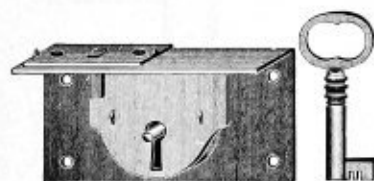
- No. 2— $\frac{7}{8}$ x1 $\frac{1}{2}$ in., Steel, Single Link, Back Spring, $\frac{3}{4}$ in. from Selvege to Key Pin, 1 Malleable Iron Bow Key. \$2.40
Weight Per Dozen $\frac{1}{2}$ Pound.

- No. 4—1x2 in., Steel, Single Link, Back Spring, $\frac{1}{2}$ in. from Selvege to Key Pin, 1 Malleable Iron Bow Key. 2.65
Weight Per Dozen $\frac{3}{4}$ Pound.
One Dozen in a Box.



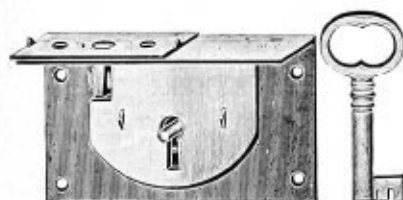
Per Dozen

- No. 6—1 $\frac{3}{8}$ x2 $\frac{1}{2}$ in., Steel, Single Link, Back Spring, $\frac{5}{8}$ in. from Selvege to Key Pin, 1 Ward, 1 Malleable Iron Bow Key. \$4.00
Weight Per Dozen 1 $\frac{1}{4}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 8—1 $\frac{1}{2}$ x3 in., Steel, Single Link, Back Spring, $\frac{3}{4}$ in. from Selvege to Key Pin, 1 Ward, 1 Malleable Iron Bow Key. \$3.50
Weight Per Dozen 1 $\frac{3}{4}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 10—2x3 $\frac{1}{4}$ in., Steel, Single Link, Back Spring, $\frac{3}{4}$ in. from Selvege to Key Pin, 1 Ward, 1 Malleable Iron Bow Key. \$4.25
Weight Per Dozen 2 $\frac{1}{2}$ Pounds.

- No. 11—2x3 $\frac{1}{2}$ in., Steel, Single Link, Back Spring, $\frac{3}{4}$ in. from Selvege to Key Pin, 1 Ward, 1 Malleable Iron Bow Key. 5.00
Weight Per Dozen 2 $\frac{3}{4}$ Pounds.

- No. 10, One Dozen; No. 11, One-half Dozen in a Box.

CHEST LOCKS

Cuts Half Size.



Per Dozen

- No. 30—1x1 $\frac{1}{2}$ in., Steel, Double Link, Back Spring, $\frac{1}{2}$ in. from Selvege to Key Pin, 1 Malleable Iron Bow Key. \$6.75

- No. 030—Brass, Otherwise Same as No. 30. 7.00
Weight Per Dozen $\frac{3}{8}$ Pound.

- No. 32—1 $\frac{1}{4}$ x2 in., Steel, Double Link, Back Spring, $\frac{3}{4}$ in. from Selvege to Key Pin, 1 Ward, 1 Malleable Iron Bow Key. 6.50

- No. 032—Brass, Otherwise Same as No. 32. 7.50
Weight Per Dozen 1 Pound.

- No. 34—1 $\frac{1}{2}$ x2 $\frac{1}{2}$ in., Steel, Double Link, Back Spring, $\frac{7}{8}$ in. from Selvege to Key Pin, 1 Ward, 6 Changes, 1 Malleable Iron Bow Key. 7.40
Weight Per Dozen 1 $\frac{1}{8}$ Pounds.

- No. 36—1 $\frac{3}{4}$ x3 in., Steel, Double Link, Back Spring, 1 in. from Selvege to Key Pin, 1 Ward, 6 Changes, 1 Malleable Iron Bow Key. 8.20
Weight Per Dozen 2 $\frac{1}{2}$ Pounds.
One Dozen in a Box.



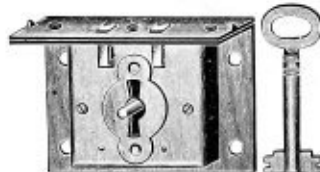
Per Dozen

- No. 100—1 $\frac{1}{4}$ x1 $\frac{1}{2}$ in., Steel, Double Round Link, $\frac{3}{4}$ in. from Selvege to Key Pin, Solid Box, Screwed, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. \$10.50

- No. 0100—Brass, Otherwise Same as No. 100. 12.25
Weight Per Dozen $\frac{3}{4}$ Pound.

- No. 102—1 $\frac{1}{2}$ x2 in., Steel, Double Round Link, $\frac{3}{4}$ in. from Selvege to Key Pin, Solid Box, Screwed, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. 11.20

- No. 0102—Brass, Otherwise Same as No. 102. 13.00
Weight Per Dozen 1 $\frac{1}{2}$ Pounds.
One Dozen in a Box.

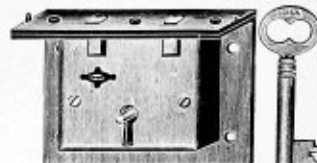


Per Dozen

- No. 80—1 $\frac{3}{4}$ x2 $\frac{1}{2}$ in., Steel, Self-Locking Double Link, $\frac{3}{4}$ in. from Selvege to Key Pin, Solid Box, Screwed, Brass Escutcheon, 4 Hook Tumblers, Secret Wards, 12 Changes, 1 Double Bitted Key. \$16.50
Weight Per Dozen 2 $\frac{3}{4}$ Pounds.
One Dozen in a Box.

CHEST LOCKS

Cuts Half Size.



Per Dozen

- No. 104—1 $\frac{3}{4}$ x2 $\frac{1}{2}$ in., Steel, Double Round Link, 1 in. from Selvege to Key Pin, Solid Box, Screwed, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. \$12.25

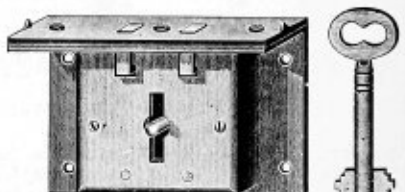
- No. 0104—Brass, Otherwise Same as No. 104. 14.15
Weight Per Dozen 2 Pounds.

- No. 106—2x3 in., Steel, Double Round Link, 1 $\frac{1}{8}$ in. from Selvege to Key Pin, Solid Box, Screwed, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. 14.00

- No. 0106—Brass, Otherwise Same as No. 106. 15.75
Weight Per Dozen 2 $\frac{3}{4}$ Pounds.

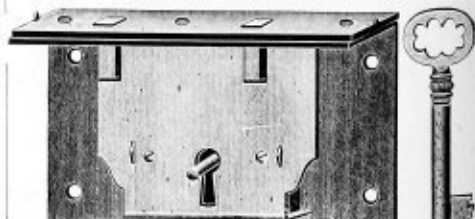
- No. 109—2 $\frac{1}{4}$ x3 $\frac{1}{2}$ in., Steel, Double Round Link, 1 $\frac{1}{4}$ in. from Selvege to Key Pin, Solid Box, Screwed, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. 15.50

- No. 0109—Brass, Otherwise Same as No. 109. 19.25
Weight Per Dozen 4 Pounds.
One Dozen in a Box.



Per Dozen

- No. 88—2x3 in., Steel, Self-Locking Double Link, 1 in. from Selvege to Key Pin, Solid Box, Screwed, Brass Escutcheon, 4 Hook Tumblers, Secret Wards, 12 Changes, 1 Double Bitted Key. \$17.50
Weight Per Dozen 3 $\frac{1}{2}$ Pounds.
One Dozen in a Box.

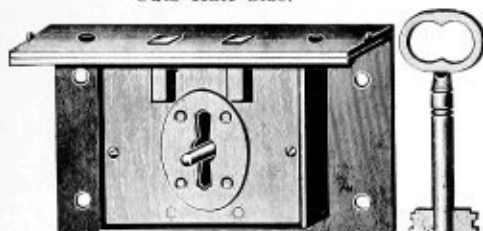


Per Dozen

- No. 73—2 $\frac{1}{4}$ x4 in., Steel, Double Link, 1 $\frac{1}{2}$ in. from Selvege to Key Pin, Solid Box, Screwed, 2 Secure Levers, 12 Changes, 1 Malleable Iron Bow Key. \$15.50
Weight Per Dozen 5 $\frac{1}{2}$ Pounds.
One-half Dozen in a Box.

CHEST LOCKS

Cuts Half Size.



Per Dozen

- No. 82—2 1/4 x 4 in., Steel, Self-Locking Double Link, 1 1/2 in. from Selvage to Key Pin, Solid Box, Screwed, Brass Escutcheon, 4 Hook Tumblers, Secret Wards, 12 Changes, 1 Double Bitted Key \$21.00

Weight Per Dozen 6 3/4 Pounds.
One-half Dozen in a Box.



Per Dozen

- No. 0149—1 1/2 x 1 1/2 in., Brass, Double Square Link, 5/8 in. from Selvage to Center of Cylinder, Solid Box, Screwed, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for 1 1/2 in. Wood \$23.00

Weight Per Dozen 1 Pound.
One Dozen in a Box.



No. 0142P.

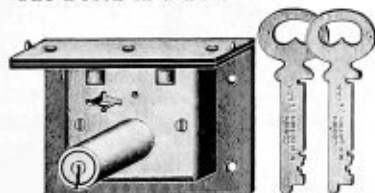
Per Dozen

- No. 0140—1 1/4 x 1 1/2 in., Brass, Double Round Link, 3/4 in. from Selvage to Center of Cylinder, Solid Box, Screwed, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, from 3/4 in. Wood \$24.50

Weight Per Dozen 1 Pound.

- No. 0142P—1 1/2 x 2 in., Brass, Dipped and Lacquered, Double Round Link, 7/8 in. from Selvage to Center of Cylinder, Solid Box, Screwed, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for 3/4 in. Wood 18.15

Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box.



Per Dozen

- No. 0144P—1 3/4 x 2 1/2 in., Brass, Dipped and Lacquered, Double Round Link, 1 in. from Selvage to Center of Cylinder, Solid Box, Screwed, 4 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for 3/4, 1 or 1 1/4 in. Wood \$22.50

Weight Per Dozen 2 3/4 Pounds.

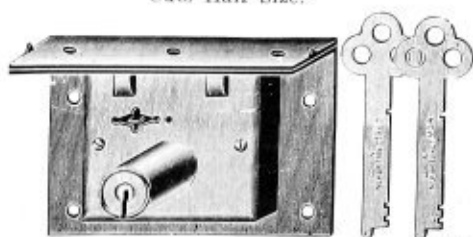
- No. 0145—2 x 3 in., Brass, Double Round Link, 1 1/4 in. from Selvage to Center of Cylinder, Solid Box, Screwed, 4 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for 1, 1 1/4 or 1 1/2 in. Wood 30.00

Weight Per Dozen 3 3/4 Pounds.

One-half Dozen in a Box, Two of Each Length Cylinder.

CHEST LOCKS

Cuts Half Size.



Per Dozen

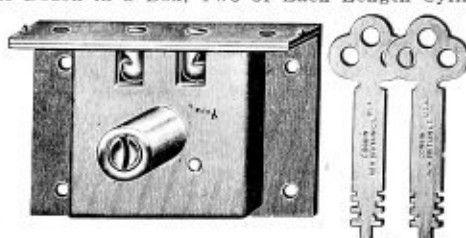
- No. 0146P—2 1/4 x 3 1/2 in., Brass, Round Double Link, 1 1/4 in. from Selvage to Center of Cylinder, Solid Box, Screwed, 4 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for 1, 1 1/4 or 1 1/2 in. Wood \$56.00

Weight Per Dozen 5 1/2 Pounds.

- No. 0147—2 5/8 x 4 in., Brass, Round Double Link, 1 1/2 in. from Selvage to Center of Cylinder, Solid Box, Screwed, 4 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for 1 1/4, 1 1/2 or 1 3/4 in. Wood 62.50

Weight Per Dozen 7 1/2 Pounds.

One-half Dozen in a Box, Two of Each Length Cylinder.



Per Dozen

- No. 78—2 1/4 x 3 1/2 in., Steel, Self-Locking Double Link, 1 1/4 in. from Selvage to Center of Cylinder, Solid Box, 4 Hook Tumblers, Secret Wards, 12 Changes, 2 Nickel Plated Steel Keys, for 1 in. Wood \$27.00

- No. 078—Brass, Otherwise Same as No. 78 32.50

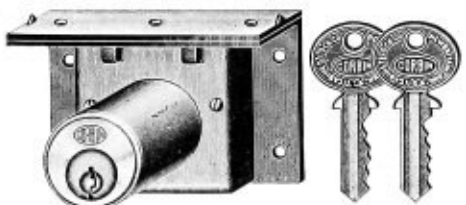
Weight Per Dozen 6 1/4 Pounds.

- No. 79—2 1/4 x 4 in., 1 1/4 in. from Selvage to Center of Cylinder, Otherwise Same as No. 78 32.50

- No. 079—Brass, Otherwise Same as No. 79 38.00

Weight Per Dozen 7 3/4 Pounds.

One-half Dozen in a Box.



Per Dozen

- No. 0170—2 x 3 in., Brass, Double Link, 1 1/4 in. from Selvage to Center of Cylinder, 1 1/4 in. Diameter Cylinder, Solid Square Box, Screwed, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys, for 3/4, 1, 1 1/4, 1 1/2 or 1 3/4 in. Wood \$66.00

Weight Per Dozen 6 Pounds.

- No. 0171—2 1/4 x 3 1/2 in., 1 1/4 in. from Selvage to Center of Cylinder, Otherwise Same as No. 0170. 73.00

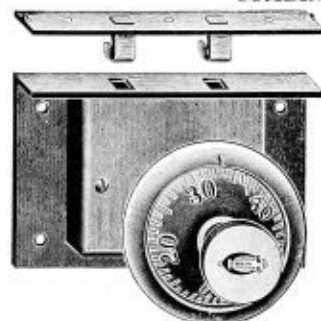
Weight Per Dozen 7 1/2 Pounds.

- No. 0172—2 5/8 x 4 in., 1 1/2 in. from Selvage to Center of Cylinder, Otherwise Same as No. 0170. 91.50

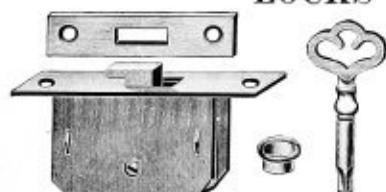
Weight Per Dozen 9 Pounds.

One in a Box.

CHEST LOCKS

Cut Half Size.
COMBINATION

Per Dozen
No. 0854—2 1/4 x 3 3/4 in.
Brass, Self-locking
Double Link, 1 1/4 in.
from Selvege to
Center of Stem, Solid
Square Box, Screwed,
Nickel Plated Knob
and Dial, 15000
Changes, Combination
can be Changed
Without Removing
Lock, Adjustable for
3/8 to 1 1/8 in. Wood.
.....\$64.00
Weight Per Dozen 9 Lbs.
One in a Box.

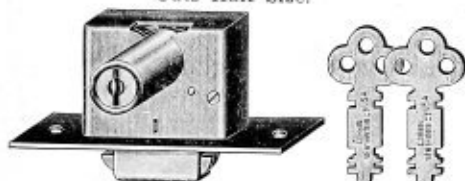
SEWING MACHINE AND PIANO
LOCKS

Cut Half Size.
Per Dozen
No. 864B—1 1/4 x 2 3/4
in., Brass Strike
and Selvege, 3/4
in. from Selvege
to Center of Key
Hole, Silvered Es-
cutcheon, Trian-
gular Key...\$3.50

Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box.

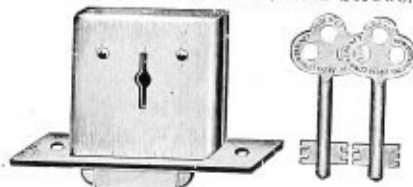
DESK LOCKS

Cuts Half Size.



Per Dozen
No. 58 3/4 C—1 1/2 x 3 1/4 in., Brass, 1 in. from Selvege
to Center of Key Hole, Gold Plated Brass Cylin-
der, Screwed Case, 6 Brass Hooks, Self-locking,
Secure Lever, Gilt Escutcheon, Self-locking
Strike, 12 Changes, 2 Steel Double Bitted Keys,
for 1 1/2 in. Wood.....\$27.00

Weight Per Dozen 4 1/4 Pounds.
One-half Dozen in a Box, with Screws.



Per Dozen
No. 47 3/4 C—1 1/2 x 3 in., Brass, 1 in. from Selvege to
Center of Key Hole, Solid Square Box, Self-lock-
ing, 4 Secure Levers, Brass Escutcheon, Self-
closing Strike, 12 Changes, 2 Nickel Plated Bow
Keys.....\$15.50

Weight Per Dozen 3 3/8 Pounds.
One Dozen in a Box, with Screws.

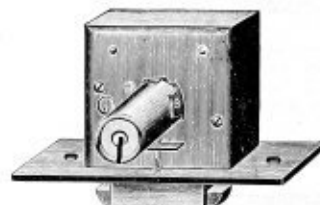
DESK LOCKS

Cuts Half Size.



Per Dozen
No. 58C—1 1/2 x 3 1/4 in., Brass, 1 in. from Selvege to
Center of Key Hole, Solid Square Box, Screwed,
Self-locking, 6 Secure Levers, Gilt Escutcheon,
Self-closing Strike, 12 Changes, 2 Nickel Plated
Bow Keys.....\$27.00

Weight Per Dozen 4 1/8 Pounds.
One-half Dozen in a Box, with Screws.



Per Dozen
No. 41E—1 7/8 x 3 1/4 in., Brass, 3/4 in. from Selvege
to Center of Cylinder, Screwed Steel Box, Self-
locking, 4 Secure Levers, Hook Bolt, Brass
Tube, Cast Bronze Escutcheon, Self-closing
Strike, 12 Changes, 2 Nickel Plated Steel Keys.....\$46.50

Weight Per Dozen 6 1/2 Pounds.
One-half Dozen in a Box, with Screws.



Per Dozen
No. 42E—1 7/8 x 3 1/4 in., Brass, 1 in. from Selvege to
Center of Cylinder, 1 1/2 in. Diameter Gold Plated
Ball Bearing Cylinder, Screwed, Self-locking,
Brass Hooks, Cast Bronze Escutcheon, Self-
closing Strike, Changes Unlimited, 2 Nickel Sil-
ver Keys.....\$64.00

Weight Per Dozen 7 Pounds.
One in a Box, with Screws.

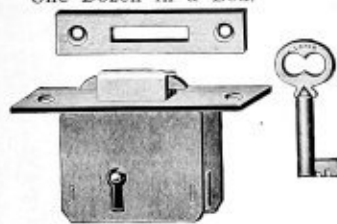
DESK LOCKS

Cuts Half Size.



Per Dozen

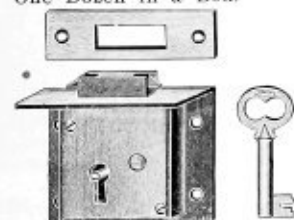
- No. 884—1½ x 2 in., Brass, ¾ in. from Selvege to Key Pin, Screwed Case, 2 Levers, 12 Changes, 1 Flat Bow Steel Key \$17.00
Weight Per Dozen ¾ Pound.
One Dozen in a Box.



No. 882.

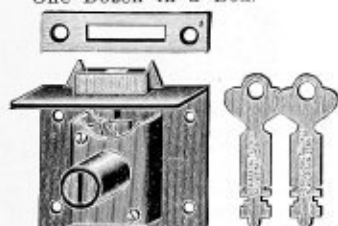
Per Dozen

- No. 880—1x2½ in., Brass Selvege and Strike, ¾ in. from Selvege to Key Pin, Double Hook Bolt, 1 Flat Bow Steel Key \$10.00
Weight Per Dozen 1¼ Pounds.
No. 882—1½ x 2½ in., Brass Selvege and Strike, ¾ in. from Selvege to Key Pin, Double Hook Bolt, 1 Flat Bow Steel Key 10.50
Weight Per Dozen 1½ Pounds.
One Dozen in a Box.



Per Dozen

- No. 67—1½ x 2 in., Steel, ¾ in. from Selvege to Key Pin, Solid Box, Screwed, 2 Levers, Hook Bolt, 12 Changes, 1 Flat Bow Steel Key \$17.50
Weight Per Dozen 1¼ Pounds.
One Dozen in a Box.



Per Dozen

- No. 046—1½ x 2 in., Brass, ¾ in. from Selvege to Center of Cylinder, Screwed, Broad Heavy Hook Bolt, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for ¾ in. Wood \$19.00
Weight Per Dozen 2 Pounds.
One Dozen in a Box.

BOOK LOCKS

Cuts Half Size.



Closed.



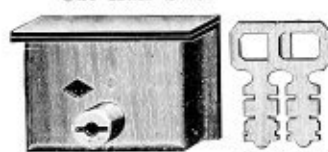
Partially Extended.

Per Dozen

- No. 0871—Brass, Nickel Plated, Self-locking Double Link, 3 Levers, 12 Changes, 2 Nickel Plated Steel Keys, Adjustable for Books 1¼ to 2 in. Thick \$76.00
Weight Per Dozen 2¼ Pounds.
No. 0872—Adjustable for Books 2 to 3½ in. Thick, Otherwise Same as No. 0871 102.00
Weight Per Dozen 3 Pounds.
One-half Dozen in a Box, with Pins and Washers for Attaching.

CASH BOX LOCKS

Cut Half Size.



Per Dozen

- No. 819—1½ x 2 in., Steel, 1 in. from Selvege to Center of Cylinder, Brass Double Link, Brass Tube Projects ¼ in., 2 Levers, 12 Changes, 2 Steel Double Bit-tered Keys \$6.25
Weight Per Dozen 1¼ Pounds.
One Dozen in a Box.

TILL LOCKS

Cuts Half Size.



Per Dozen

- No. 620—1½ x 1½ in., Steel, Back Spring, ½ in. from Selvege to Center of Key Pin, 1 Iron Key \$2.40
Weight Per Dozen ¾ Pound.
No. 622—1½ x 2 in., Steel, Back Spring, ¾ in. from Selvege to Key Pin, 1 Ward, 1 Iron Key 3.00
Weight Per Dozen ¾ Pound.
One Dozen in a Box.

TILL LOCKS

Cuts Half Size.



Per Dozen

- No. 626—1½ x 2¼ in., Steel, Back Spring, ¾ in. from Selvege to Key Pin, Double Key Hole, 1 Iron Key \$2.50
Weight Per Dozen 1 Pound.
No. 625—1½ x 2¼ in., Steel, Back Spring, ¾ in. from Selvege to Key Pin, Double Key Hole, 1 Iron Key 2.50
Weight Per Dozen 1¼ Pounds.
One Dozen in a Box.



Per Dozen

- No. 634—2x2½ in., Steel, Back Spring, 1 in. from Selvege to Key Pin, Broad Bolt Double Keyhole, 1 Ward, 1 Iron Key \$4.00
No. 636—2½ x 2½ in., 1¼ in. from Selvege to Key Pin, Otherwise Same as No. 634 5.00
Weight Per Dozen 2 Pounds.
One Dozen in a Box.

DRAWER LOCKS

Cuts Half Size.



Per Dozen

- No. 450—1¼ x 1½ in., Steel, ½ in. from Selvege to Key Pin, Solid Box, Screwed, 2 Secure Levers, 12 Changes, 1 Steel Bow Key \$10.50
No. 0450 — Brass, Otherwise Same as No. 450 14.00
Weight Per Dozen ¾ Pound.
No. 452—1½ x 2 in., Steel, ¾ in. from Selvege to Key Pin, Screwed, Heavy Bolt, 2 Secure Levers, 12 Changes, 1 Steel Bow Key 10.50
No. 0452 — Brass, Otherwise Same as No. 452 14.00
Weight Per Dozen 1¼ Pounds.
One Dozen in a Box.



Per Dozen

- No. 430—1½ x 2 in., Steel, ¾ in. from Selvege to Key Pin, Solid Box, Broad Brass Bolt, 2 secure Levers, 12 Changes, 1 Steel Bow Key \$10.50
Weight Per Dozen 1¼ Pounds.
One Dozen in a Box.

DRAWER LOCKS

Cuts Half Size.



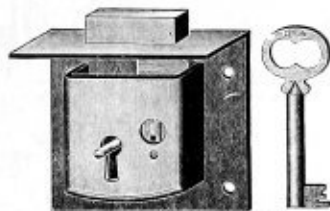
Per Dozen

- No. 431— $1\frac{1}{2} \times 2\frac{1}{4}$ in., Steel, $\frac{5}{8}$ in. from Selvege to Key Pin, Solid Box, Broad Brass Bolt, 2 Secure Levers, 12 Changes, 1 Steel Bow Key \$11.50
Weight Per Dozen $1\frac{1}{4}$ Pounds.

- No. 437— $1\frac{3}{4} \times 2\frac{1}{2}$ in., Steel, $\frac{3}{4}$ in. from Selvege to Key Pin, Solid Square Box, Screwed, Broad Heavy Bolt, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. 11.25

- No. 0457—Brass with Bronze Key, Otherwise Same as No. 457 14.00

Weight Per Dozen $2\frac{1}{2}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 04250— $2 \times 2\frac{1}{2}$ in., Brass, 1 in. from Selvege to Key Pin, Solid Box, Broad Heavy Bolt, 1 Secure Lever, 3 Wards, 12 Changes, 1 Steel Bow Key \$12.50
Weight Per Dozen $2\frac{1}{4}$ Pounds.

- No. 0425N— $2\frac{1}{4} \times 2\frac{1}{2}$ in., $1\frac{1}{4}$ in. from Selvege to Key Pin, Otherwise Same as No. 04250 13.25
Weight Per Dozen $2\frac{1}{2}$ Pounds.

- No. 0425M— $2\frac{1}{2} \times 2\frac{1}{2}$ in., $1\frac{1}{2}$ in. from Selvege to Key Pin, Otherwise Same as No. 04250 13.25
Weight Per Dozen $2\frac{1}{2}$ Pounds.

- No. 0425L— $2\frac{1}{2} \times 2\frac{3}{4}$ in., $1\frac{3}{4}$ in. from Selvege to Key Pin, Otherwise Same as No. 04250 14.00

Weight Per Dozen $2\frac{3}{4}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 442— $1\frac{3}{4} \times 2\frac{1}{2}$ in., Steel, $\frac{3}{4}$ in. from Selvege to Key Pin, Solid Box, Broad Heavy Bolt, 1 Secure Lever, 3 Wards, 12 Changes, 1 Steel Bow Key \$11.25

Weight Per Dozen 2 Pounds.
One Dozen in a Box.

DRAWER LOCKS

Cuts Half Size.



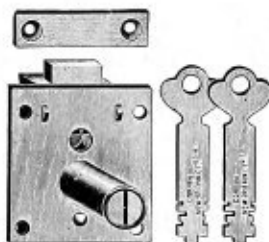
Per Dozen

- No. 467— $2\frac{1}{4} \times 2\frac{3}{4}$ in., Steel, $1\frac{1}{8}$ in. from Selvege to Key Pin, Solid Square Box, Screwed, Broad Heavy Bolt, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. \$13.25

- No. 469— $2\frac{1}{4} \times 3$ in., Steel, $1\frac{1}{8}$ in. from Selvege to Key Pin, Solid Square Box, Screwed, Broad Heavy Bolt, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. 17.25

- No. 0469—Brass, Otherwise Same as No. 469 21.00

Weight Per Dozen 3 Pounds.
One Dozen in a Box.

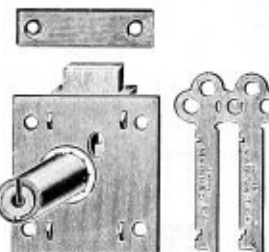


Per Dozen

- No. 699— $1\frac{3}{4} \times 1\frac{5}{8}$ in., Steel, $1\frac{1}{8}$ in. from Selvege to Center of Cylinder, Broad Bolt, 2 Secure Levers, 36 Changes, 2 Nickel Plated Steel Keys, for $\frac{3}{4}$ in. Wood \$ 8.50

- No. 0699—Brass, Otherwise Same as No. 699 10.50

Weight Per Dozen $2\frac{1}{2}$ Pounds.
One Dozen in a Box.



Per Dozen

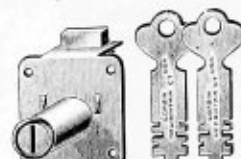
- No. 0699 $\frac{1}{2}$ — $1\frac{3}{4} \times 1\frac{5}{8}$ in., Brass, $\frac{3}{4}$ in. from Selvege to Center of Cylinder, Broad Bolt, 2 Secure Levers, 36 Changes, 2 Nickel Plated Steel Keys, for $\frac{1}{2}$, $\frac{3}{4}$ and $\frac{7}{8}$ in. Wood \$10.50

- No. 0699 $\frac{1}{2}$ A—All Keys Alike, for $\frac{3}{4}$ in. Wood, Otherwise Same as No. 0699 $\frac{1}{2}$ 10.50

Weight Per Dozen 2 Pounds.
One Dozen in a Box.

DRAWER LOCKS

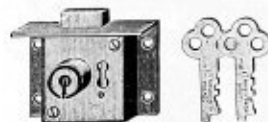
Cuts Half Size.



Per Dozen

- No. 0660 $\frac{1}{2}$ — $1\frac{5}{8} \times 1\frac{5}{8}$ in., Brass, $\frac{3}{4}$ in. from Selvege to Center of Cylinder, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for $\frac{1}{2}$ in. Wood \$11.00
Weight Per Dozen $1\frac{1}{2}$ Pounds.

One Dozen in a Box.



Per Dozen

- No. 590 $\frac{1}{8}$ — $1 \times 1\frac{1}{2}$ in., Steel, $\frac{1}{2}$ in. from Selvege to Center of Cylinder, Solid Square Box, Screwed, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for $\frac{1}{2}$ in. Wood \$9.00
Weight Per Dozen 1 Pound.

One Dozen in a Box.



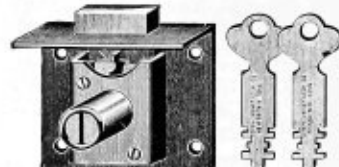
Per Dozen

- No. 590— $1\frac{1}{2} \times 1\frac{3}{4}$ in., Steel, $\frac{3}{4}$ in. from Selvege to Center of Cylinder, Broad Heavy Bolt, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for $\frac{3}{4}$ in. Wood. \$7.50

- No. 0590—Brass, Otherwise Same as No. 590 9.50

Note—These Locks furnished on special order for any thickness of wood and if so ordered with All Keys alike.

Weight Per Dozen $1\frac{3}{4}$ Pounds.
One Dozen in a Box.



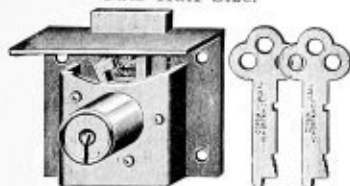
Per Dozen

- No. 0650— $1\frac{3}{4} \times 2$ in., Brass, $\frac{3}{4}$ in. from Selvege to Center of Cylinder, Screwed, Broad Heavy Bolt, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Double Bitted Keys, for $\frac{3}{4}$ in. Wood \$15.00
Weight Per Dozen $1\frac{3}{4}$ Pounds.

- No. 0651— 2×2 in., $1\frac{1}{4}$ in. from Selvege to Center of Cylinder, Otherwise Same as No. 0650 20.00
Weight Per Dozen 2 Pounds.
One Dozen in a Box.

DRAWER LOCKS

Cuts Half Size.

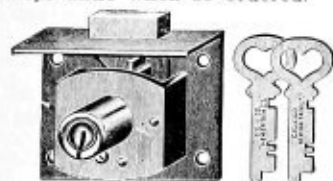


Per Dozen

No. 592½—1½x2 in., Steel, ¾ in. from Selvege to Center of Cylinder, Broad Bolt, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for ¾ in. Wood.....\$10.75

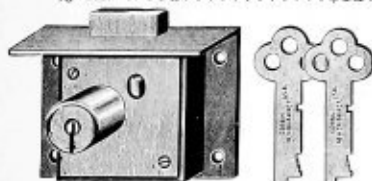
No. 0592½—Brass, Otherwise Same as No. 592½... 13.00

Note—No. 0592½ carried in stock for ¾, 1, 1½ and 1¾ in. wood. Also furnished for ¾ in. wood with all keys alike when so ordered.



Per Dozen

No. 0675—1½x2 in., Brass, ¾ in. from Selvege to Center of Cylinder, Cast Brass Box and Cylinder, Screwed, Broad Heavy Bolt, 3 Secure Levers, 100 Changes, 2 Polished Nickel Plated Steel Keys, for ¾ in. Wood.....\$13.25



Per Dozen

No. 0601—1½x2½ in., Brass, ¾ in. from Selvege to Center of Cylinder, Solid Square Box, Screwed, Broad Heavy Bolt, Cylinder Cut for Both Cupboard and Drawer, 3 Secure Levers, 12 Changes, 2 Polished Nickel Plated Steel Keys, for ¾ in. Wood, Weight Dozen 2½ Lbs....\$21.00

No. 0602—1½x2½ in., Otherwise Same as No. 0601, Weight Per Dozen 3 Lbs. 30.00

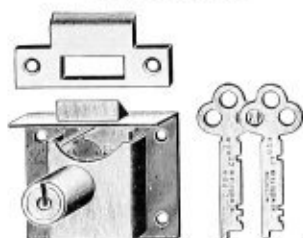
No. 0604—2x2½ in., 1 in. from Selvege to Center of Cylinder, Otherwise Same as No. 0601, Weight Per Dozen 3 Lbs. 31.50

No. 0606—2½x2½ in., 1½ in. from Selvege to Center of Cylinder, Otherwise Same as No. 0601, Weight Per Dozen 3½ Lbs. 34.00

No. 0608—2½x2½ in., 1½ in. from Selvege to Center of Cylinder, Otherwise Same as No. 0601, Weight Per Dozen 3½ Lbs. 36.50
One Dozen in a Box.

DRAWER LOCKS

Cuts Half Size.

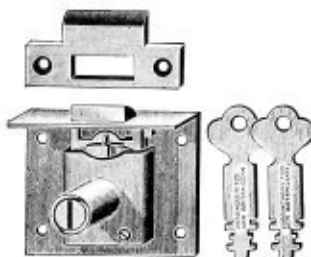


Per Dozen

No. 590¾—1½x1¾ in., Steel, ¾ in. from Selvege to Center of Cylinder, Cast Bronze Latch Bolt, Brass Strike, Self-Locking, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for ¾ in. Wood...\$12.00

No. 0590¾—Brass, Otherwise Same as No. 590¾..... 16.00

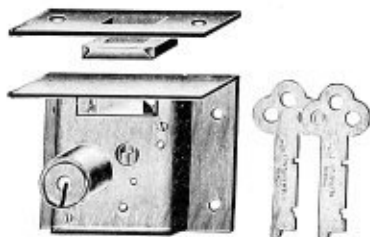
Weight Per Dozen 1¾ Pounds.
One Dozen in a Box.



Per Dozen

No. 0650½—1½x2 in., Brass, ¾ in. from Selvege to Center of Cylinder, Cast Bronze Latch Bolt, Brass Strike, Self-Locking, Screwed, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for ¾ in. Wood.....\$18.50

Weight Per Dozen 2 Pounds.
One Dozen in a Box.



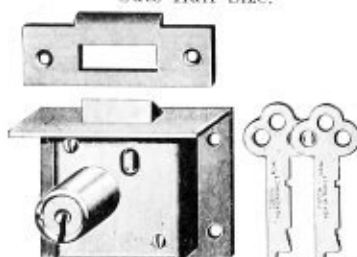
Per Dozen

No. 0681—1½x2½ in., Bronze, ¾ in. from Selvege to Center of Cylinder, Cast Bronze Square Box and Cylinder, Screwed, Cast Bronze Latch Bolt, Heavy Cast Bronze Strike, Self-Locking, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for ¾ in. Wood.....\$30.50

Weight Per Dozen 3¾ Pounds.
One Dozen in a Box.

DRAWER LOCKS

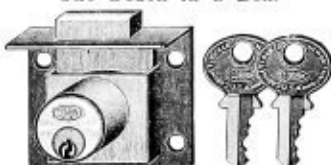
Cuts Half Size.



Per Dozen

No. 0601½—1½x2½ in., Brass, ¾ in. from Selvege to Center of Cylinder, Solid Square Box, Screwed, Broad Heavy Latch Bolt, Self-Locking, Cylinder Cut for Both Cupboard and Drawer, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for ¾ in. Wood...\$25.50

Weight Per Dozen 3½ Pounds.
One Dozen in a Box.



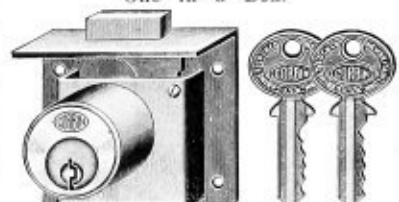
Per Dozen

No. 0665—1½x2 in., Brass, ¾ in. from Selvege to Center of Cylinder, Cylinder Diameter ¾ in., Broad Heavy Bolt, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys, for ¾ in. Wood.....\$43.00

No. 0666—1½x2 in., ¾ in. from Selvege to Center of Cylinder, Otherwise Same as No. 0665..... 43.50

Note—These locks are furnished for 1, 1½, 1¾, 1½ and 1¾ in. wood when so ordered at additional cost.

Weight Per Dozen 2¾ Pounds.
One in a Box.



Per Dozen

No. 0686—2x2½ in., Brass, 1 in. from Selvege to Center of Cylinder, Cylinder Diameter 1½ in., Broad Heavy Bolt, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys, for ¾ or ¾ in. Wood.....\$50.50

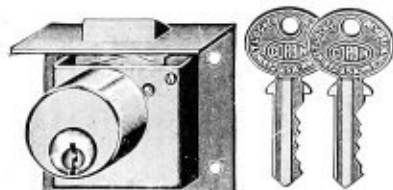
Note—These locks furnished for 1, 1½, 1¾, 1½ and 1¾ in. wood when so ordered at additional cost.

Weight Per Dozen 4¾ Pounds.
One in a Box.

Pin Tumbler Locks can be furnished alike or Master Keyed, at additional cost.

DRAWER LOCKS

Cuts Half Size.



Per Dozen

No. 0686 $\frac{1}{2}$ —2x2 $\frac{1}{4}$ in., Brass, 1 in. from Selvege to Center of Cylinder, Cylinder Diameter 1 $\frac{1}{8}$ in., Broad Heavy Cast Bronze Latch Bolt, Brass Strike, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys, for $\frac{3}{4}$ or $\frac{5}{8}$ in. Wood \$58.00
Weight Per Dozen 3 Pounds.

No. 0666 $\frac{1}{2}$ —1 $\frac{1}{2}$ x2 in., Brass, $\frac{5}{8}$ in. from Selvege to Center of Cylinder, Cylinder Diameter $\frac{3}{4}$ in., Otherwise Same as No. 0686 $\frac{1}{2}$. 49.50
Weight Per Dozen 5 $\frac{1}{2}$ Pounds.

Note—These Locks furnished alike or Master-Keyed or for 1. 1 $\frac{1}{2}$, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ or 1 $\frac{3}{4}$ in. wood at additional cost.
One Dozen in a Box.

SUB-TREASURY LOCKS

Cuts Half Size.



Per Dozen

No. 0587D—1 $\frac{1}{2}$ x1 $\frac{1}{2}$ in., Brass Plate, $\frac{3}{8}$ in. from Selvege to Center of Cylinder, Brass Cylinder Projects $\frac{1}{8}$ in., Thin Brass Bolt, Screwed, 4 Screw Holes, 2 Large and 2 Small, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys \$10.00
Weight Per Dozen 2 $\frac{3}{4}$ Pounds.
One Dozen in a Box.



Per Dozen

No. 0587B—1 $\frac{1}{2}$ x1 $\frac{1}{2}$ in., Brass Plate, $\frac{3}{8}$ in. from Selvege to Center of Cylinder, Brass Cylinder Projects $\frac{1}{8}$ in., Thin Bolt, Screwed, 3 Screw Holes, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys \$10.00
Weight Per Dozen 2 Pounds.

No. 0587C—Brass Cylinder Projects $\frac{1}{8}$ in., 3 Large Screw Holes, Otherwise Same as No. 0587B. 10.00
Weight Per Dozen 1 $\frac{1}{2}$ Pounds.
One Dozen in a Box.

SUB-TREASURY LOCKS

Cuts Half Size.



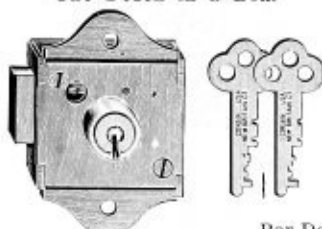
Per Dozen

No. 0359—1 $\frac{1}{2}$ x1 $\frac{1}{4}$ in., Brass, $\frac{5}{8}$ in. from Selvege to Center of Cylinder, Cylinder Projects $\frac{1}{8}$ in., 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys \$11.50
Weight Per Dozen 1 $\frac{1}{4}$ Pounds.
One Dozen in a Box.



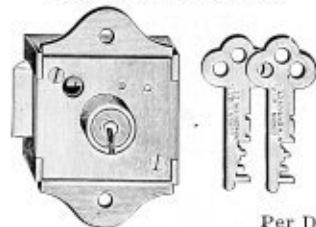
Per Dozen

No. 0363—1 $\frac{1}{2}$ x1 $\frac{1}{4}$ in., Brass, $\frac{5}{8}$ in. from Selvege to Center of Cylinder, Cylinder Projects $\frac{1}{8}$ in., Self-locking, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys \$11.50
Weight Per Dozen 1 $\frac{1}{4}$ Pounds.
One Dozen in a Box.



Per Dozen

No. 582X—1 $\frac{1}{2}$ x1 $\frac{1}{4}$ in., Steel, Black Japanned, $\frac{5}{8}$ in. from Selvege to Center of Cylinder, Heavy Wrought Box, Screwed, Broad Heavy Brass Bolt with $\frac{1}{8}$ in. Throw, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys for $\frac{3}{8}$ or $\frac{1}{2}$ in. Wood \$16.25
Weight Per Dozen 3 $\frac{1}{2}$ Pounds.
One Dozen in a Box.

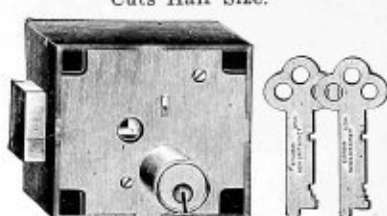


Per Dozen

No. 581X—1 $\frac{1}{2}$ x1 $\frac{1}{4}$ in., Steel, Black Japanned, $\frac{5}{8}$ in. from Selvege to Center of Cylinder, Heavy Wrought Box, Screwed, Cast Brass Latch Bolt, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for $\frac{3}{8}$ or $\frac{1}{2}$ in. Wood. \$16.25
Weight Per Dozen 3 $\frac{1}{2}$ Pounds.
One Dozen in a Box.

SUB-TREASURY LOCKS

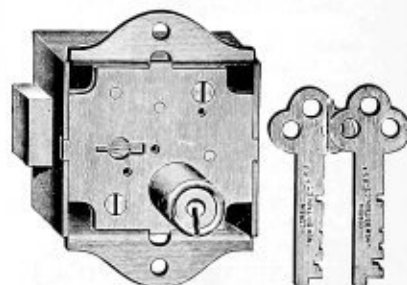
Cuts Half Size.



No. 355. Per Dozen

No. 355—2x2 $\frac{1}{4}$ in., Steel, Black Japanned, 1 $\frac{1}{8}$ in. from Selvege to Center of Cylinder, Nickel Plated Cylinder Projects $\frac{1}{8}$ in., Heavy Wrought Box, Screwed, Broad Heavy Brass Bolt, 4 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys \$20.50

No. 356—With Latch Bolt, Otherwise Same as No. 355 Described Above. 20.50
Weight Per Dozen 4 $\frac{1}{2}$ Pounds.
One-half Dozen in a Box.

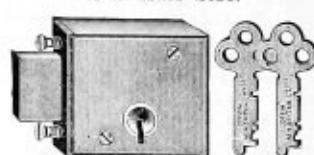


Per Dozen

No. 355W—3 $\frac{1}{4}$ x2 $\frac{1}{4}$ in., Steel, Black Japanned, 1 $\frac{1}{8}$ in. from Selvege to Center of Cylinder, Nickel Plated Cylinder Projects $\frac{1}{8}$ in., Heavy Wrought Box, Screwed, 4 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys \$21.00
Weight Per Dozen 5 Pounds.
One-half Dozen in a Box.

WICKET LOCKS

Cut Half Size.

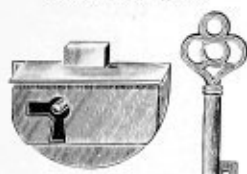


Per Dozen

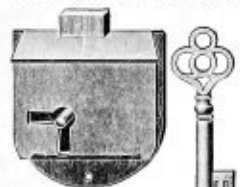
No. 0588L—1 $\frac{1}{2}$ x1 $\frac{1}{4}$ in., Brass, $\frac{5}{8}$ in. from Selvege to Center of Cylinder, Heavy Wrought Box, Screwed, Bolt Projects $\frac{1}{8}$ in. Through Selvege when Lock is Unlocked, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys. \$17.00
Weight Per Dozen 2 Pounds.
One in a Box, with Screws.

MACHINE LOCKS

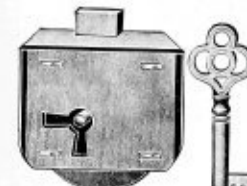
Cuts Half Size.



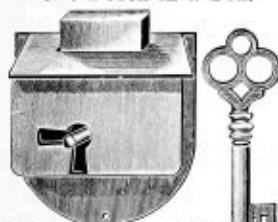
- No. 626 1/2—1 1/4 x 2 in., Steel, 3/8 in. from Selvege to Key Pin, Back Spring, Double Key Hole, 1 Malleable Iron Bow Key \$1.50
Weight Per Dozen 1 Pound.
One Dozen in a Box.



- No. 625 1/2—1 3/8 x 2 in., Steel, 3/8 in. from Selvege to Key Pin, Back Spring, Double Key Hole, 1 Malleable Iron Bow Key \$1.50
Weight Per Dozen 1 1/4 Pounds.
One Dozen in a Box.



- No. 626 1/2 E—1 1/8 x 2 in., Steel, 5/8 in. from Selvege to Key Pin, Back Spring, Double Key Hole, 1 Malleable Iron Bow Key \$2.25
Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box.



- No. 634 1/2—2 x 2 1/4 in., Steel, 1 in. from Selvege to Key Pin, Back Spring, Broad Bolt, Double Key Hole, 1 Malleable Iron Bow Key \$3.00
Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box.



- No. 526—1 1/2 x 1 in., Steel, 5/8 in. from Selvege to Key Pin, Back Spring, Double Key Hole, 1 Malleable Iron Bow Key \$1.50
Weight Per Dozen 1 Pound.
One Dozen in a Box.

CUPBOARD LOCKS

Cuts Half Size.



- No. 301—3 1/4 x 1 in., Heavy Brass Selvege, 1/2 in. from Selvege to Key Pin, Broad Bolt, 1 Tumbler, 1 Malleable Iron Bow Key \$14.00
Weight Per Dozen 2 Pounds.
No. 302—3 1/4 x 1 1/4 in., 3/8 in. from Selvege to Key Pin, Otherwise Same as No. 301. 14.75
Weight Per Dozen 2 1/2 Pounds.
No. 303—3 1/4 x 1 1/2 in., 1 in. from Selvege to Key Pin, Otherwise Same as No. 301. 17.50
Weight Per Dozen 2 1/2 Pounds.
One Dozen in a Box.



- No. 325—2 5/8 x 1 in., Steel, 1/2 in. from Selvege to Key Pin, Brass Selvege and Strike, Broad Heavy Cast Brass Latch Bolt, Self-locking, Double Key Hole, 4 Wards, 12 Changes, 1 Steel Bow Key \$14.00

Note—Also furnished left-hand when so ordered. Cut shows right hand.

Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box.



- No. 316—3 x 1 1/2 in., Steel, 5/8 in. from Selvege to Key Pin, Brass Selvege, Solid Square Box, Screwed, Made Right or Left Hand, Heavy Bolt, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. \$14.00
Weight Per Dozen 1 3/4 Pounds.
One Dozen in a Box.

CUPBOARD LOCKS

Cuts Half Size.



- No. 310—2 5/8 x 1 1/2 in., Steel, 1/2 in. from Selvege to Key Pin, Brass Selvege, Broad Heavy Bolt, Double Key Hole, 1 Tumbler, 1 Malleable Iron Bow Key \$3.25
Weight Per Dozen 1 1/4 Pounds.

- No. 310 1/2—2 5/8 x 1 1/4 in., 3/8 in. from Selvege to Key Pin, Otherwise Same as No. 310. 3.25

- No. 311—2 5/8 x 1 3/8 in., 3/8 in. from Selvege to Key Pin, Otherwise Same as No. 310. 3.50
Weight Per Dozen 1 3/8 Pounds.

- No. 312—2 5/8 x 1 1/2 in., 1 in. from Selvege to Key Pin, Otherwise Same as No. 310. 4.00
Weight Per Dozen 1 5/8 Pounds.
One Dozen in a Box.



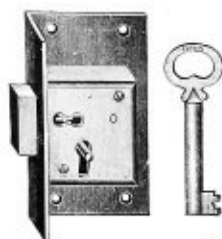
- No. 0260—2 x 7/8 in., Brass, 3/8 in. from Selvege to Key Pin, Square Selvege, Brass Bolt, Solid Square Box, Screwed, Made Right or Left Hand, 1 Secure Lever, 4 Changes, 1 Steel Bow Key \$14.00
Weight Per Dozen 3/4 Pound.
One Dozen in a Box.



- No. 0270—2 1/2 x 1 1/2 in., Brass, 3/4 in. from Selvege to Key Pin, Square Selvege, Brass Bolt, Solid Box, Screwed, Made Right or Left Hand, 1 Secure Lever, 4 Changes, 1 Steel Bow Key \$9.50
Weight Per Dozen 1 5/8 Pounds.
One Dozen in a Box.

CUPBOARD LOCKS

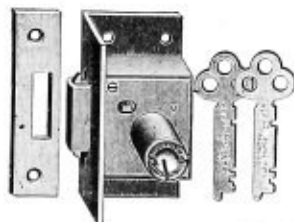
Cuts Half Size



No. 0262— $2\frac{1}{2} \times 1\frac{3}{8}$ in., Brass, $\frac{5}{8}$ in. from Selvege to Key Pin, Square Selvege, Solid Box, Screwed, Made Right or Left Hand, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. **\$10.50**
Weight Per Dozen $1\frac{1}{2}$ Pounds.
One Dozen in a Box.



No. 0280— $3 \times 1\frac{3}{4}$ in., Brass, $\frac{7}{8}$ in. from Selvege to Key Pin, Square Selvege, Solid Box, Screwed, Broad Bolt, Made Right or Left Hand, 2 Secure Levers, 12 Changes, 1 Steel Bow Key. **\$14.00**
Weight Per Dozen $2\frac{1}{4}$ Pounds.
One Dozen in a Box.



No. 0329—For Sliding Doors, $2\frac{1}{4} \times 1\frac{3}{8}$ in., Brass, $\frac{1}{2}$ in. from Selvege to Center of Cylinder, Square Selvege, Brass Strike, Solid Square Box, Screwed, Hook Bolt, 4 Secure Levers, May be Locked without Using Key by Turning Knurled Center in Tube Slightly to the Left, 12 Changes, 2 Nickel Plated Steel Keys, for $\frac{7}{8}$ in. Wood. **\$2.80**
Weight Per Dozen 2 Pounds.
One Dozen in a Box.

CUPBOARD LOCKS

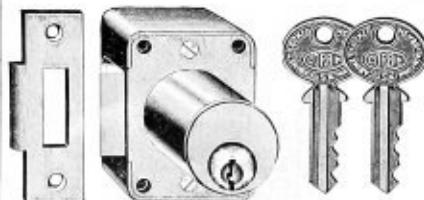
Cuts Half Size



No. 0370A— $2 \times 1\frac{1}{2}$ in., Brass, $\frac{7}{8}$ in. from Selvege to Center of Cylinder, Square Selvege, Broad Heavy Bolt, $\frac{7}{8}$ in. Diameter Cylinder, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys for $\frac{7}{8}$ in. Wood. **\$43.50**
Weight Per Dozen 3 Pounds.
One in a Box.



No. 0768 $\frac{1}{2}$ — $1\frac{1}{2} \times 1\frac{1}{4}$ in., Brass, $\frac{5}{8}$ in. from Selvege to Center of Cylinder, Cast Bronze Latch Bolt, Made Right or Left Hand, $\frac{7}{8}$ in. Diameter Cylinder, Brass Strike, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys, for $\frac{7}{8}$ in. Wood. **\$53.00**
Note—Furnished for 1, $1\frac{1}{8}$, $1\frac{1}{4}$ or $1\frac{1}{2}$ in. Wood, when so Ordered, at Additional Cost.
Weight Per Dozen 4 Pounds.
One in a Box, with Screws.



No. 0252— $2 \times 1\frac{1}{2}$ in., Brass, $\frac{3}{4}$ in. from Selvege to Center of Cylinder, Cast Bronze Latch Bolt, Made Right or Left Hand, $1\frac{1}{8}$ in. Diameter Cylinder, Brass Strike, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys, for $\frac{7}{8}$ in. Wood. **\$69.00**
Note—Furnished for 1, $1\frac{1}{8}$, $1\frac{1}{4}$ or $1\frac{1}{2}$ in. Wood when So Ordered at Additional Cost.
Weight Per Dozen $6\frac{1}{2}$ Pounds.
One in a Box, with Screws.

CHIFFONIER LOCKS

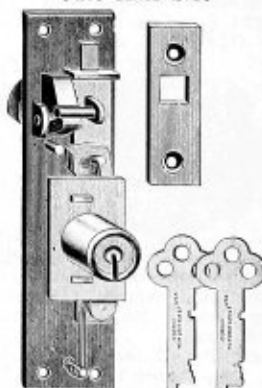
Cuts Half Size



No. 0800— $3\frac{1}{2} \times 1$ in., Brass, High Pin and Tube, 1 Secure Lever, 1 Fine Brass Key, Buffed and Lacquered, for $\frac{7}{8}$ in. Wood. **\$19.00**
Weight Per Dozen $2\frac{3}{4}$ Pounds.
One Dozen in a Box.

SHOW CASE LOCKS

Cuts Half Size



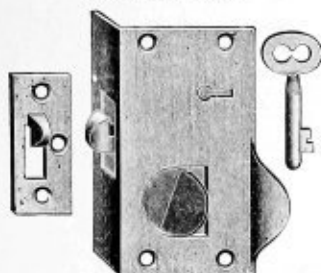
No. 02295 $\frac{1}{2}$ — $4\frac{1}{2} \times 1$ in., Brass, Cast Brass Hook Bolt, Made Right or Left Hand, Brass Strike, 3 Secure Levers, 12 Chnges, 2 Nickel Plated Steel Keys, for $\frac{7}{8}$ in. Wood. **\$28.50**
Note—Furnished for $1\frac{1}{2}$ in. Wood when So Ordered.
Weight Per Dozen $2\frac{3}{4}$ Pounds.
One Dozen in a Box.



No. 0342— $1\frac{1}{4} \times 1\frac{3}{8}$ in., Brass, $\frac{5}{8}$ in. from Selvege to Center of Cylinder, Square Selvege, Solid Box, Hook Bolt, Made Right or Left Hand, Brass Strike, 2 Secure Levers, 2 Nickel Plated Steel Keys, for $\frac{7}{8}$ in. Wood. **\$15.50**
Weight Per Dozen $1\frac{1}{2}$ Pound.
One in a Box.

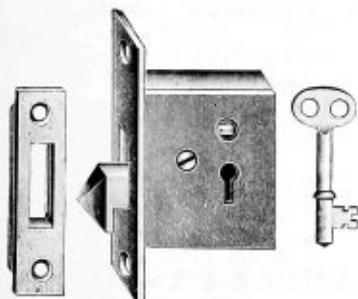
SHOW CASE LOCKS

Cuts Half Size.



Per Dozen

- No. 02299— $2\frac{3}{8} \times 1\frac{1}{2}$ in., Cast Bronze, Buffed and Lacquered, Spring Catch, 1 Tumbler, Solid Bronze Key \$24.50
Weight Per Dozen $3\frac{3}{4}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 02297— $2\frac{3}{8} \times 1\frac{1}{2}$ in., Bronze, 1 in. from Selvage to Center of Key Hole, Cast Bronze Catch, Reversible, Cast Bronze Strike, Self-Locking, 1 Secure Lever, 1 Solid Bronze Key \$21.50
Weight Per Dozen $3\frac{1}{2}$ Pounds.
One in a Box.

WARDROBE LOCKS

Cuts Half Size.



Per Dozen

- No. 700— $1\frac{1}{8} \times \frac{3}{4}$ in., Steel, Solid Square Box, Bolt Shoots Right and Left, 1 Tumbler, 1 Steel Bow Key \$5.25
No. 0700— $1\frac{1}{8} \times \frac{3}{4}$ in., Brass, Solid Square Box, Bolt Shoots Right and Left, 1 Tumbler, 1 Steel Bow Key 7.00
Weight Per Dozen $\frac{3}{4}$ Pound.
One Dozen in a Box.

WARDROBE LOCKS

Cuts Half Size.



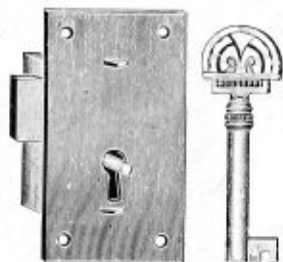
Per Dozen

- No. 701B— 2×1 in., Steel, Unpolished, Solid Square Box, Bolt Shoots Right and Left, 1 Tumbler, 1 Malleable Iron Bow Key \$2.00
Weight Per Dozen $1\frac{1}{4}$ Pounds.
No. 702B— $2\frac{1}{2} \times 1\frac{1}{4}$ in., Otherwise Same as No. 701B... 2.25
No. 702—Polished, Otherwise Same as No. 702B... 3.25
Weight Per Dozen $1\frac{1}{2}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 704— $3 \times 1\frac{3}{4}$ in., Steel, Solid Square Box, Bolt Shoots Right and Left, 1 Tumbler, 1 Malleable Iron Bow Key \$2.25
Weight Per Dozen $2\frac{3}{4}$ Pounds.
No. 709— $3\frac{1}{2} \times 2$ in., Steel, Solid Square Box, Broad Bolt Shoots Right and Left, 1 Tumbler, 1 Ward, 1 Malleable Iron Bow Key 6.25
Weight Per Dozen $2\frac{3}{4}$ Pounds.
No. 710— $3\frac{1}{2} \times 1\frac{3}{4}$ in., Otherwise Same as No. 709... 6.00
Weight Per Dozen $2\frac{3}{4}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 704 1/2— $3 \times 1\frac{3}{4}$ in., Steel, Coppered, Solid Square Box, Bolt Shoots Right and Left, 1 Tumbler, 1 Fancy Bronze Key \$4.50
Weight Per Dozen $2\frac{3}{4}$ Pounds.
One Dozen in a Box.

WARDROBE LOCKS

Cuts Half Size.



Per Dozen

- No. 712— $3\frac{1}{2} \times 2$ in., Steel, Solid Square Box, Broad Heavy Bolt Shoots Right and Left, 2 Secure Levers, 12 Changes, 1 Malleable Iron Bow Key \$8.00
Weight Per Dozen $3\frac{3}{4}$ Pounds.
No. 714— $4 \times 2\frac{1}{4}$ in., Otherwise Same as No. 712... 8.50
Weight Per Dozen $4\frac{1}{4}$ Pounds.
No. 723— $3 \times 1\frac{3}{4}$ in., Steel, Solid Square Box, Heavy Steel Bolt Shoots Right and Left, 2 Secure Levers, 12 Changes, 1 Malleable Iron Bow Key 11.00
No. 724—Screwed Box, Brass Bolt, Otherwise Same as No. 723... 14.00
Weight Per Dozen $2\frac{1}{2}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 718— $1\frac{1}{8} \times \frac{3}{4}$ in., Steel, Solid Box, Brass Bolt Shoots Right and Left, 2 Secure Levers, 12 Changes, 1 Steel Bow Key \$14.00
No. 0718—Brass, Bronze Key, Otherwise Same as No. 718 15.75
Weight Per Dozen $\frac{3}{4}$ Pounds.
No. 719— $2\frac{1}{2} \times 1\frac{1}{4}$ in., Otherwise Same as No. 718... 12.25
No. 0719—Brass, Bronze Key, Otherwise Same as No. 719 14.00
Weight Per Dozen $1\frac{1}{2}$ Pounds.
No. 720— $2\frac{3}{4} \times 1\frac{1}{4}$ in., Otherwise Same as No. 718... 12.25
No. 0720—Brass, Bronze Key, Otherwise Same as No. 720 17.50
Weight Per Dozen $1\frac{1}{8}$ Pounds.
No. 722— $3 \times 1\frac{1}{4}$ in., Solid Square Box, Screwed, Otherwise Same as No. 718... 14.25
No. 0722—Brass, Bronze Key, Otherwise Same as No. 722 19.00
Weight Per Dozen 2 Pounds.
One Dozen in a Box.

WARDROBE LOCKS

Cuts Half Size

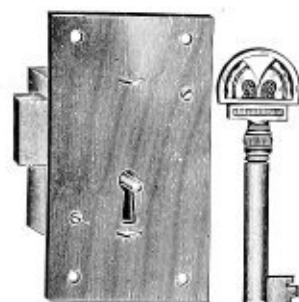


No. 726.

Per Dozen

No. 725— $3\frac{1}{2} \times 2$ in., Steel, Solid Square Box, Heavy Steel Bolt Shoots Right and Left, 2 Secure Levers, 1 Malleable Iron Bow Key. \$14.00

No. 726—Screwed Box, Brass Bolt, Otherwise Same as No. 725. 16.50
Weight Per Dozen $3\frac{1}{4}$ Pounds.
One Dozen in a Box.



No. 0726.

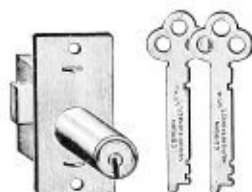
Per Dozen

No. 0724— $3 \times 1\frac{1}{4}$ in., Brass, Solid Square Box, Screwed, Broad Heavy Bolt Shoots Right and Left, 2 Secure Levers, 12 Changes, 1 Solid Bronze Key. \$19.00
Weight Per Dozen 2 $\frac{1}{2}$ Pounds.

No. 0726— $3\frac{1}{2} \times 2$ in., Otherwise Same as No. 0724. 17.00
Weight Per Dozen 3 $\frac{1}{2}$ Pounds.

No. 0727— $4 \times 2\frac{1}{2}$ in., Otherwise Same as No. 0724. 28.00
Weight Per Dozen 5 $\frac{1}{2}$ Pounds.

No. 0727, One-half Dozen, Others, One Dozen in a Box.



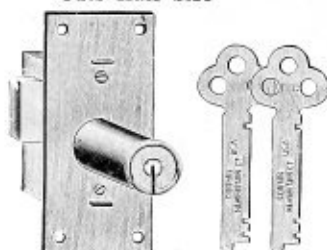
Per Dozen

No. 749— $1\frac{1}{2} \times \frac{3}{4}$ in., Steel, Solid Box, Brass Bolt Shoots Right and Left, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for $\frac{3}{4}$ in. Wood. \$13.50

No. 0740—Brass, Otherwise Same as No. 749. 16.25
Weight Per Dozen $1\frac{1}{2}$ Pounds.
One Dozen in a Box.

WARDROBE LOCKS

Cuts Half Size



Per Dozen

No. 750— $2\frac{3}{4} \times 1\frac{1}{4}$ in., Steel, Solid Box, Screwed, Broad Heavy Brass Bolt Shoots Right and Left, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys, for $\frac{3}{4}$, 1 and $1\frac{1}{2}$ in. Wood. \$18.25

No. 0750—Brass, Otherwise Same as No. 750. 19.50
Weight Per Dozen 2 $\frac{1}{2}$ Pounds.
One Dozen in a Box.

No. 0751— $3 \times 1\frac{1}{4}$ in., Brass, Otherwise Same as No. 750. 22.50
Weight Per Dozen 3 Pounds.

No. 0752— $3\frac{1}{2} \times 2$ in., Brass, Otherwise Same as No. 750. 31.50
Weight Per Dozen 4 $\frac{1}{2}$ Pounds.
One-half Dozen in a Box.

Note—The Above Locks can be Furnished for $1\frac{1}{4}$, $1\frac{1}{2}$ and $1\frac{3}{4}$ in. Wood or Master Keyed at Additional Cost. Also Keyed Alike at No Additional Cost.



Per Dozen

No. 0760— $2\frac{1}{2} \times 1\frac{1}{2}$ in., Brass, Solid Square Box, Screwed, Broad Heavy Bolt Shoots Right and Left, $1\frac{1}{2}$ in. Diameter Cylinder, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys, for $\frac{3}{4}$ and $\frac{1}{2}$ in. Wood. \$61.00

Note—Furnished for $1\frac{1}{4}$, $1\frac{1}{2}$ and $1\frac{3}{4}$ in. Wood, Also Master Keyed at an Additional Cost.

Weight Per Dozen 5 $\frac{1}{4}$ Pounds.
One in a Box.



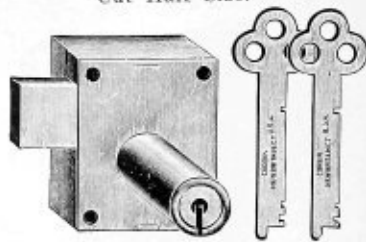
Per Dozen

No. 0768— $1\frac{1}{2} \times 1\frac{1}{4}$ in., Brass, Solid Box, Screwed, Heavy Brass Bolt for Either Right or Left Hand, $\frac{3}{4}$ in. Diameter Cylinder, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys, for $\frac{3}{4}$ in. Wood. \$47.00

Note—Furnished for 1 and $1\frac{1}{2}$ in. Wood at an Additional Cost.
Weight Per Dozen 3 $\frac{1}{2}$ Pounds.
One in a Box, with Screws.

LOCKER LOCKS

Cut Half Size.



Per Dozen

No. 755— $2 \times 1\frac{1}{2}$ in., Steel, $1\frac{1}{4}$ in. from Selvege to Center of Cylinder, Heavy Brass Bolt Projects $\frac{3}{4}$ in. for Either Right or Left Hand, Square Box, 5 Secure Levers, 16800 Changes, 2 Nickel Plated Steel Keys, for $\frac{3}{4}$ in. Wood. \$22.50

No. 755M—Master Keyed, Otherwise Same as No. 755. 25.00

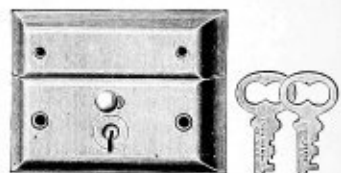
No. 0755—Brass, Otherwise Same as No. 755. 25.50

No. 0755M—Master Keyed, Otherwise Same as No. 0755. 27.50
Weight Per Dozen 4 $\frac{1}{2}$ Pounds.
One-half Dozen in a Box.

Note—Furnished for $1\frac{1}{4}$, $1\frac{1}{2}$ and $1\frac{3}{4}$ in. Wood when So Ordered at No Extra Cost.

SAMPLE CASE LOCKS

Cuts Half Size



Brass

$2\frac{1}{2}$ in. Extra Heavy, Self-Locking, 2 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys.

Per Dozen

No. 1086 $\frac{1}{4}$ —Buffed and Lacquered. \$13.50

No. 1086—Nickel Plated, Buffed. 14.50
Weight Per Dozen 3 $\frac{1}{4}$ Pounds.
One Dozen in a Box.



Brass

$1\frac{1}{4}$ in., Self-Locking, 1 Flat Bow Key.

Per Dozen

No. 1098—Buffed and Lacquered. \$11.50

No. 1098 $\frac{1}{2}$ —Nickel Plated, Buffed. 12.00
Weight Per Dozen $\frac{3}{4}$ Pound.
One Dozen in a Box.

SAMPLE CASE LOCKS

Cut Half Size.



Cast Brass

3 in., Solid Box, Self-locking, 1 Tumbler, 1 Flat Bow Key.

Per Dozen

No. 1082—Buffed and Lacquered.....\$11.50

No. 1083—Nickel Plated.....12.50

Weight Per Dozen 1 3/4 Pounds.

One Dozen in a Box.

AUTOMOBILE TOOL BOX LOCKS

Cuts Half Size.

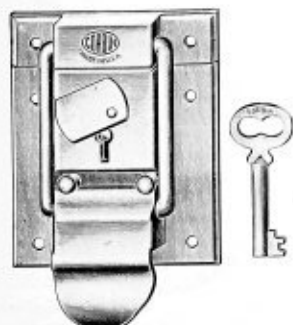


Per Dozen

No. 01835—3 1/4 x 2 1/4 in., Brass, Polished, Buffed and Lacquered, 1 Secure Lever, 1 Nickel Plated Steel Key.....\$11.00

Weight Per Dozen 3 Pounds.

One Dozen in a Box.



Per Dozen

No. 01214 1/2 — 2 1/4 x 2 1/4 in., Brass, Polished, Buffed and Nickel Plated, Spring Drop, 1 Secure Lever, 1 Nickel Plated Bow Key.....\$13.00

Weight Per Dozen 3 1/4 Pounds.

One Dozen in a Box.

AUTOMOBILE TOOL BOX LOCKS

Cuts Half Size.



Per Dozen

No. 1215 — 2x3 1/4 in., Cast Brass, Buffed and Lacquered, Self-locking, 3 Secure Levers, 30 Changes, 2 Polished Cast Brass Keys.....\$15.00

Weight Per Dozen 5 1/2 Pounds.

One Dozen in a Box, with Screws.



Per Dozen

No. 1217 — 3 1/8 x 2 1/4 in. Over All, Cast Brass, Buffed and Lacquered, Self-locking, 2 Secure Levers, 2 Nickel Plated Steel Keys.....\$20.00

Can be locked without using key by pressing button. The lever serves as a substantial locking link, as a lift handle when unlocked, and when drawn into the locking position it draws the cover down tightly preventing any rattle.

Weight Per Dozen 5 1/2 Pounds.

One Dozen in a Box.

SUIT CASE CATCHES

Cut Half Size.



Per Gross

No. 01882 1/4 — 2 1/2 in., Brass, Buffed and Lacquered.....\$20.00

No. 01882 1/2 — 2 1/2 in., Brass, Nickel Plated.....20.00

Weight Per Gross 11 1/4 Pounds.

One Dozen in a Box.

SUIT CASE CATCHES

Cut Half Size.



Per Gross

No. 01883 1/4 — 2 in., Brass, Buffed and Lacquered.....\$20.00

No. 01883 1/2 — 2 in., Brass, Nickel Plated.....20.00

Weight Per Gross 5 1/4 Pounds.

One Dozen in a Box.

SUIT CASE LOCKS

Cuts Half Size.

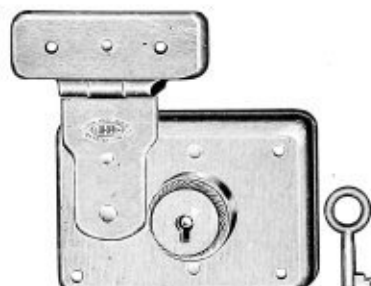


Per Dozen

No. 01840—3x2 1/4 in., Brass, Polished, Buffed and Lacquered, 1 Secure Lever, 1 Brass Plated Malleable Iron Key.....\$6.50

Weight Per Dozen 2 3/4 Pounds.

One Dozen in a Box.



Per Dozen

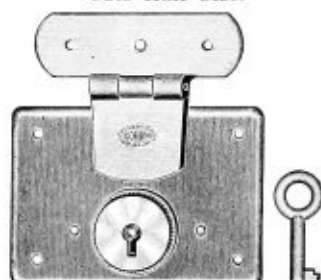
No. 01649—2x3 in., Brass, Buffed and Lacquered, Self-locking, Movable Escutcheon, When Unlocked May be Used as a Catch, Spring Hasp, 1 Secure Lever, 1 Brass Plated Malleable Iron Key.....\$8.00

Weight Per Dozen 3 Pounds.

One Dozen in a Box.

SUIT CASE LOCKS

Cuts Half Size.

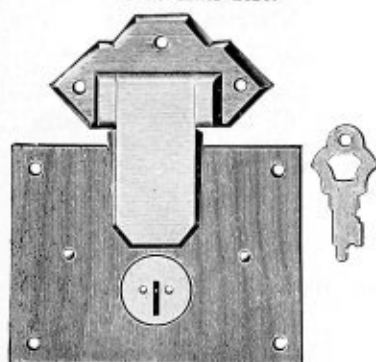


Per Dozen

No. 15778—2x3 in., Brass, Buffed and Lacquered, Self-locking, Movable Escutcheon, When Unlocked May be Used as a Catch, Cast Brass Spring Hasp, 1 Secure Lever, 1 Brass Plated Malleable Iron Key \$6.50
Weight Per Dozen 3 1/4 Pounds.
One Dozen in a Box.

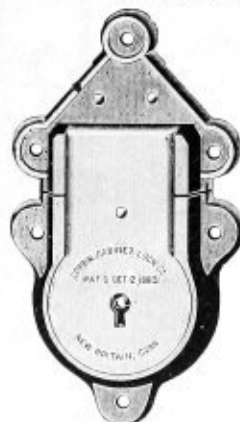
TRUNK LOCKS

Cuts Half Size.



Per Dozen

No. 1435—3 1/2 in., Steel, Black Japanned, Heavy Malleable Iron Spring Hasp, Brass Escutcheon, 1 Flat Steel Key, \$4.50
Weight Per Dozen 3 3/4 Pounds.
No. 1452—4 in., Otherwise Same as No. 1435, 4.75
Weight Per Dozen 4 1/2 Pounds.
No. 1481—4 1/4 in., Otherwise Same as No. 1435, 6.50
Weight Per Dozen 5 3/4 Pounds.
One Dozen in a Box.

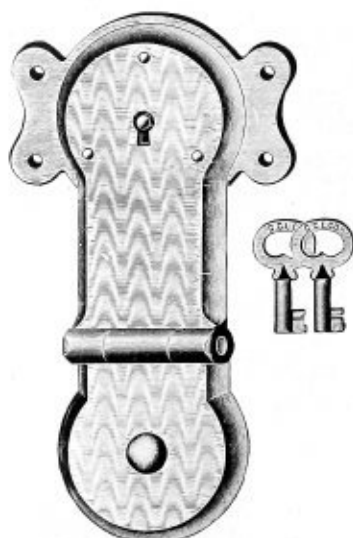


Per Dozen

No. 01134—5x2 3/4 in., Iron, Brass Plated Frame and Center, Spring Hasp, 1 Malleable Iron Key, \$6.00
Wt. Per Dozen 4 1/2 Pounds.
One Dozen in a Box.

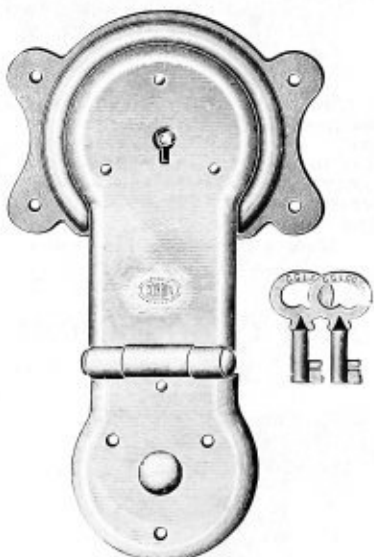
TRUNK LOCKS

Cuts Half Size.



Per Dozen

No. 1003—6 1/4 x 3 1/2 in., Cast Bronze, Buffed Edges, 2 Secure Levers, 3 Changes, 2 Nickel Plated Steel Keys, \$26.00
Weight Per Dozen 8 1/2 Pounds.
One Dozen in a Box, with Bolts, Nuts and Washers.



Per Dozen

No. 01256 1/2 P—6 1/2 x 3 3/4 inches, Wrought Steel, Brass Plated, Heavy Guard Cup, 2 Secure Levers, 3 Changes, 2 Nickel Plated Steel Keys, \$6.75
Weight Per Dozen 7 1/2 Pounds.
One Dozen in a Box, with Bolts, Nuts and Washers.

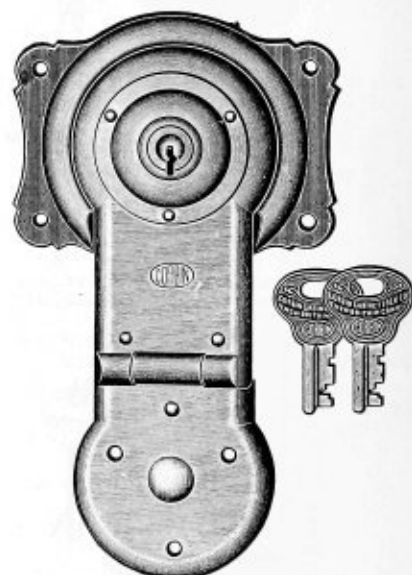
TRUNK LOCKS

Cuts Half Size.



Per Dozen

No. 1016P—6 1/2 x 3 3/4 in., Cast Bronze, Finely Finished, Heavy Guard Cup, Self-locking, Pin Tumbler, Changes Unlimited, 2 Nickel Silver Keys \$61.00
Weight Per Dozen 18 1/2 Pounds.
One-half Dozen in a Box, with Bolts, Nuts and Washers.



Per Dozen

No. 01269 1/2—6 1/2 x 3 3/4 inches, Wrought Steel, Brass Plated, Heavy Closed Guard Cup, Self-locking, 2 Latch Bolts, 2 Secure Levers, 6 Changes, 2 Nickel Silver Milled Keys \$12.00
Weight Per Dozen 10 Pounds.
One Dozen in a Box, with Bolts, Nuts and Washers.

EXTRUDED METAL PADLOCKS

CORBIN

Corbin Extruded Metal Padlocks are Made from a Solid Block of Extruded Brass Metal, Finely Finished and Bored Out to Receive the Mechanism

WARDER

Per Dozen



No. 2875— $\frac{5}{8}$ x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, 4 Wards, 30 Changes, 2 Nickel Plated Steel Keys..... \$ 8.10
Weight Per Dozen $\frac{3}{4}$ Pound.

No. 2876— $\frac{3}{4}$ x $\frac{1}{2}$ in., Otherwise Same as No. 2875..... 11.38
Weight Per Dozen $\frac{3}{4}$ Pound.

No. 2869—1 x $\frac{1}{2}$ in., Otherwise Same as No. 2875... 12.98
Weight Per Dozen 1 $\frac{1}{4}$ Pounds.
One Dozen in a Box.

PIN TUMBLER CYLINDER

Per Dozen



No. 2879—1 x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, Changes Unlimited, 2 Nickel Silver Keys..... \$27.10
Weight Per Dozen 2 $\frac{1}{2}$ Pounds.

With Chain

No. 2879-C—With 9 in. Brass Chain, Otherwise Same as No. 2879..... 29.36
Weight Per Dozen 2 $\frac{1}{2}$ Pounds.

One in a Box.



No. 2880—1 $\frac{1}{2}$ x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, Changes Unlimited, 2 Nickel Silver Keys..... \$30.90

No. 2880 $\frac{1}{4}$ —Masterkeyed, Otherwise Same as No. 2880..... 38.82
Weight Per Dozen 4 Pounds.

With Chain

No. 2880-C—With 9 in. Brass Chain, Otherwise Same as No. 2880..... 33.06

No. 2880 $\frac{1}{4}$ -C—Masterkeyed, with 9 in. Brass Chain, Otherwise Same as No. 2880 $\frac{1}{4}$ 40.98
Weight Per Dozen 4 $\frac{1}{2}$ Pounds.

One in a Box.



No. 2881—1 $\frac{1}{2}$ x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, Changes Unlimited, 2 Nickel Silver Keys..... \$38.16

No. 2881 $\frac{1}{4}$ —Masterkeyed, Otherwise Same as No. 2881..... 46.08
Weight Per Dozen 5 $\frac{1}{2}$ Pounds.

No. 2882—1 $\frac{3}{4}$ x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, Changes Unlimited, 2 Nickel Silver Keys... 45.36

No. 2882 $\frac{1}{4}$ —Masterkeyed, Otherwise Same as No. 2882..... 53.28
Weight Per Dozen 8 $\frac{1}{2}$ Pounds.

With Chain

No. 2881-C—With 9 in. Brass Chain, Otherwise Same as No. 2881 Described Above..... 40.80

No. 2881 $\frac{1}{4}$ -C—Masterkeyed, with 9 in. Brass Chain, Otherwise Same as No. 2881 $\frac{1}{4}$ Described Above..... 48.72
Weight Per Dozen 6 Pounds.

No. 2882-C—With 9 in. Brass Chain, Otherwise Same as No. 2882 Described Above..... 48.00

No. 2882 $\frac{1}{4}$ -C—Masterkeyed, With 9 in. Brass Chain, Otherwise Same as No. 2882 $\frac{1}{4}$ Described Above..... 55.92
Weight Per Dozen 9 $\frac{1}{2}$ Pounds.

One in a Box.

PIN TUMBLER CYLINDER

Per Dozen



No. 2883—2 x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, Changes Unlimited, 2 Nickel Silver Keys..... \$55.54

No. 2883 $\frac{1}{4}$ —Masterkeyed, Otherwise Same as No. 2883..... 63.36
Weight Per Dozen 16 $\frac{1}{2}$ Pounds.

No. 2884—2 $\frac{1}{4}$ x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, Changes Unlimited, 2 Nickel Silver Keys... 60.10

No. 2884 $\frac{1}{4}$ —Masterkeyed, Otherwise Same as No. 2884..... 68.02
Weight Per Dozen 11 $\frac{1}{2}$ Pounds.

No. 2884.

No. 2885—2 $\frac{1}{2}$ x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, Changes Unlimited, 2 Nickel Silver Keys..... 81.60

No. 2885 $\frac{1}{4}$ —Masterkeyed, Otherwise Same as No. 2885..... 89.52
Weight Per Dozen 16 $\frac{1}{2}$ Pounds.

No. 2886—3 x $\frac{1}{2}$ in., All Brass, Heavy Wrought Self-Locking Spring Shackle, Changes Unlimited, 2 Nickel Silver Keys..... 122.00

No. 2886 $\frac{1}{4}$ —Masterkeyed, Otherwise Same as No. 2886..... 129.92
Weight Per Dozen 30 $\frac{1}{4}$ Pounds.

With Chain

No. 2883-C—With 9 in. Galvanized Iron Chain, Otherwise Same as No. 2883 Described Above..... 57.60

No. 2883 $\frac{1}{4}$ -C—Masterkeyed, with 9 in. Galvanized Iron Chain, Otherwise Same as No. 2883 $\frac{1}{4}$ Described Above..... 65.52
Weight Per Dozen 11 $\frac{1}{2}$ Pounds.

No. 2884-C—With 9 in. Galvanized Iron Chain, Otherwise Same as No. 2884 Described Above..... 62.74

No. 2884 $\frac{1}{4}$ -C—Masterkeyed, with 9 in. Galvanized Iron Chain, Otherwise Same as No. 2884 $\frac{1}{4}$ Described Above..... 70.66
Weight Per Dozen 13 Pounds.

No. 2885-C—With 9 in. Galvanized Iron Chain, Otherwise Same as No. 2885 Described Above..... 84.60

No. 2885 $\frac{1}{4}$ -C—Masterkeyed, with 9 in. Galvanized Iron Chain, Otherwise Same as No. 2885 $\frac{1}{4}$ Described Above..... 92.52
Weight Per Dozen 18 $\frac{1}{4}$ Pounds.

No. 2886-C—With 9 in. Galvanized Iron Chain, Otherwise Same as No. 2886 Described Above..... 125.00

No. 2886 $\frac{1}{4}$ -C—Masterkeyed, with 9 in. Galvanized Iron Chain, Otherwise Same as No. 2886 $\frac{1}{4}$ Described Above..... 132.92
Weight Per Dozen 32 $\frac{1}{4}$ Pounds.

One in a Box.

Per Dozen

No. 2880-AH—1 $\frac{3}{8}$ x $\frac{1}{2}$ in., Brass Case, Nickel Plated Steel Self-Locking Spring Shackle with 2 $\frac{1}{2}$ in. Clearance, Changes Unlimited, 2 Nickel Silver Keys... \$32.10

No. 2881-AH—1 $\frac{1}{2}$ x $\frac{1}{2}$ in., Otherwise Same as No. 2880-AH..... 38.40
Weight Per Dozen 6 $\frac{1}{2}$ Pounds.

No. 2882-AH—1 $\frac{3}{4}$ x $\frac{1}{2}$ in., Otherwise Same as No. 2880-AH..... 45.36
Weight Per Dozen 9 $\frac{1}{4}$ Pounds.

No. 2883-AH—2 x $\frac{1}{2}$ in., Otherwise Same as No. 2880-AH..... 56.64
Weight Per Dozen 10 $\frac{1}{2}$ Pounds.

No. 2884-AH—2 $\frac{1}{4}$ x $\frac{1}{2}$ in., Otherwise Same as No. 2880-AH..... 68.02
Weight Per Dozen 11 $\frac{1}{2}$ Pounds.

No. 2885-AH—2 $\frac{1}{2}$ x $\frac{1}{2}$ in., Otherwise Same as No. 2880-AH..... 81.60
Weight Per Dozen 16 $\frac{1}{2}$ Pounds.

No. 2886-AH—3 x $\frac{1}{2}$ in., Otherwise Same as No. 2880-AH..... 122.00
Weight Per Dozen 30 $\frac{1}{4}$ Pounds.



Note—All Locks on This Page can be Furnished All Keys Alike at an Extra Charge.

PADLOCKS

Cuts Half Size.



No. 0986—2x1 3/4 in., Heavy Cast Bronze Case, Nickel Plated Steel Self-locking Spring Shackle, Brass Cylinder, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys.....\$54.00
Weight Per Dozen 9 5/8 Pounds.
One in a Box.



No. 2813 1/4 — 1 1/2 x 1 1/4 in., Rustless Finish Wrought Steel Case, Nickel Plated Steel Self-locking Spring Shackle, Brass Cylinder, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys.....\$26.40
Weight Per Dozen 3 1/4 Pounds.
One in a Box.



No. 2814 1/4—2x1 1/2 in., Rustless Finish Wrought Steel Case, Nickel Plated Steel Self-locking Spring Shackle, Brass Cylinder, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys.....\$31.20
Weight Per Dozen 6 3/4 Pounds.
One in a Box.

PADLOCKS

Cuts Half Size.



No. 0966 — 1 1/4 in., Profiled Finish Wrought Brass Case and Self-locking Spring Shackle, Brass Cylinder, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys.....\$26.20
Weight Per Dozen 3 3/4 Pounds.
One in a Box.



No. 2882X—1 3/4 x 1 1/2 in., Extended Brass Metal Case, Steel Wire Adjustable and Removable Shackle, Adjustable in Clearance from 1/2 in. to 1 1/4 in., Dust Guard Over Key Way, Pin Tumblers, Changes Unlimited, 2 Nickel Silver Keys.....\$43.20
Weight Per Dozen 7 5/8 Pounds.
One in a Box.



No. 0995—2 1/4 in., Polished Cast Gun Metal Case and Self-Locking Spring Shackle, 6 Secure Levers, 3000 Changes, 2 Nickel Plated Steel Keys.....\$20.32

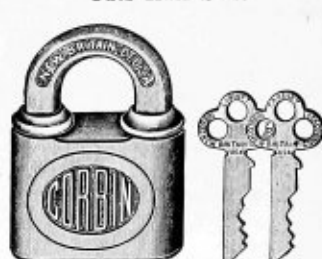
No. 0995-A — Polished Cast Brass Case and Shackle, Otherwise Same as No. 0995.....16.70
Weight Per Dozen 5 1/2 Pounds.

With Chain

No. 0995-C—With 9 in. Steel Chain, Otherwise Same as No. 0995.....22.12
Weight Per Dozen 6 3/4 Pounds.
One-half Dozen in a Box.

PADLOCKS

Cuts Half Size.



No. 990—2 in., Rustless Finish Cast Iron Case, Cast Bronze Self-locking Shackle, Pin Tumblers, 144 Changes, 2 Flat Steel Keys.....\$27.72
Weight Per Dozen 8 Pounds.
One Half Dozen in a Box.



No. 9889—1 1/2 in., Rustless Finish Cast Iron Case, Cast Bronze Self-locking Shackle, Pin Tumblers, 144 Changes, 2 Flat Steel Keys.....\$27.72
Weight Per Dozen 4 7/8 Pounds.
One-half Dozen in a Box.



No. 2967—2 in., Rustless Finish Wrought Steel Case, Drop Forged Steel Self-locking Spring Shackle, 4 Secure Levers, 144 Changes, 2 Nickel Plated Corrugated Steel Keys.....\$34.30
Weight Per Dozen 6 1/4 Pounds.
One-half Dozen in a Box.

PADLOCKS

Cuts Half Size.



No. 2973.

Per Dozen

No. 2970—1 in., Cast Bronze Case and Self-locking Spring Shackle, 3 Secure Levers, 48 Changes, 2 Coined Nickel Silver Keys\$27.36
Weight Per Dozen 1½ Pounds.

No. 2971—1¼ in., Otherwise Same as No. 2970..... 29.52
Weight Per Dozen 2 Pounds.

No. 2972—1½ in., Otherwise Same as No. 2970..... 33.12
Weight Per Dozen 3¼ Pounds.

No. 2973—1¾ in., 4 Secure Levers, 72 Changes, Otherwise Same as No. 2970..... 36.72
Weight Per Dozen 4¼ Pounds.

No. 2974—2 in., 4 Secure Levers, 144 Changes, Otherwise Same as No. 2970..... 41.04
Weight Per Dozen 7¾ Pounds.
One-half Dozen in a Box.



Per Dozen

No. 09855A—1¾ in., Cast Brass Case, Nickel Plated Steel Removable Ratchet Shackle, Shackle Adjustable in Clearance from ½ in. to 4¼ in., 12 Changes, 2 Nickel Plated Corrugated Steel Keys.....\$14.52

The offset bottom makes it convenient to easily insert key in keyway.

Weight Per Dozen 6 Pounds.
One-half Dozen in a Box.

PADLOCKS

Cuts Half Size.



Per Dozen

No. 09838—1¾ in., Cast Brass Case, Nickel Plated Steel Removable Ratchet Shackle, Shackle Adjustable in Clearance from 1 in. to 2 in., 18 Changes, 2 Nickel Plated Corrugated Steel Keys...\$14.40
Weight Per Dozen 5¼ Pounds.
One-half Dozen in a Box.



Per Dozen

No. 9863-M—1½ in., Rustless Finish Wrought Steel Case, Nickel Plated Wrought Steel Self-locking Spring Shackle with 1¼ in. Clearance, 3 Secure Levers, 48 Changes, 2 Nickel Plated Steel Keys...\$23.32
Weight Per Dozen 3½ Pounds.
No. 9863-H—Shackle with 2½ in. Clearance, Otherwise Same as No. 9863-M.....25.78
Weight Per Dozen 3¾ Pounds.
One-half Dozen in a Box.



Per Dozen

No. 09827-H—1¼ in., Polished Cast Brass Case, Nickel Plated Wrought Steel Self-locking Spring Shackle with 1¼ in. Clearance, 6 Changes, 2 Nickel Plated Steel Keys\$7.96
Weight Per Dozen 1½ Pounds.
No. 09828-H—1½ in., Otherwise Same as No. 09827-H..... 9.76
Weight Per Dozen 2¼ Pounds.
One Dozen in a Box.

PADLOCKS

Cuts Half Size.



Per Dozen

No. 2972-R—1½ in., Cast Bronze Case, Nickel Plated Iron Wire Self-locking Spring Shackle, 3 Secure Levers, 48 Changes, 2 Coined Nickel Silver Keys...\$34.00
Weight Per Dozen 3¾ Pounds.
One-half Dozen in a Box.



Per Dozen

No. 09862—2 in., Cast Brass Case, Wrought Brass Self-locking Spring Shackle, 4 Wards, 12 Changes, 2 Nickel Plated Flat Steel Keys...\$14.40
Weight Per Dozen 6 Pounds.
One-half Dozen in a Box.



Per Dozen

No. 02827—1½ in., Cast Brass Case, Wrought Brass Self-locking Spring Shackle, 12 Changes, 2 Nickel Plated Corrugated Steel Keys, 1 Master Key with Each Dozen\$10.20
Weight Per Dozen 3 Pounds.

With Chain

No. 02827-C—With 6 in. Brass Chain, Otherwise Same as No. 02827 11.16
Weight Per Dozen 3¾ Pounds.
One in a Carton, One Dozen Cartons in a Box.

PADLOCKS

Cuts Half Size.



Per Dozen

- No. 09899—2 in., Cast Bronze Case, Cast Brass Self-Locking Spring Shackle, 6 Secure Levers, 144 Changes, 2 Nickel Silver Milled Keys\$26.14
Weight Per Dozen 6 Pounds.
One-half Dozen in a Box.



Per Dozen

- No. 9863—1½ in., Rustless Finish Wrought Steel Case, Nickel Plated Wrought Steel Self-Locking Spring Shackle, 3 Secure Levers, 48 Changes, 2 Nickel Plated Steel Keys\$21.14
Weight Per Dozen 2½ Pounds.
No. 9865—2 in., Otherwise Same as No. 9863.....\$24.90
No. 09865—Wrought Brass Case, Otherwise Same as No. 9865\$33.60
Weight Per Dozen 5½ Pounds.
One-half Dozen in a Box.



No. 09828.

Per Dozen

- No. 09827—1¼ in., Polished Cast Brass Case, Nickel Plated Wrought Steel Self-Locking Spring Swivel Shackle, 6 Changes, 2 Nickel Plated Steel Keys.....\$7.26
Weight Per Dozen 1½ Pounds.
No. 09828—1¼ in., Otherwise Same as No. 09827..... 9.16
Weight Per Dozen 3½ Pounds.
One Dozen in a Box.

PADLOCKS

Cuts Half Size.



Per Dozen

- No. 02829—2¼ in., Polished Cast Brass Case, Nickel Plated Steel Self-Locking Spring Swivel Shackle, 6 Changes, 2 Nickel Plated Steel Keys\$11.62
Weight Per Dozen 5¼ Pounds.
One-half Dozen in a Box.



Per Dozen

- No. 981¼—2 in., Black Japanned Wrought Steel Case, Nickel Plated Steel Self-Locking Spring Swivel Shackle, 6 Changes, 2 Nickel Plated Corrugated Steel Keys\$4.80
Weight Per Dozen 3¼ Pounds.
One Dozen in a Box.



Per Dozen

- No. 9884—1¼ in., Bower-Barffed Cast Iron Case, Nickel Plated Panels, Heavy Steel Nickel Plated Steel Self-Locking Spring Shackle, Warded Mechanism, 6 Changes, 2 Nickel Plated Flat Steel Keys\$7.20
Weight Per Dozen 3½ Pounds.
One Dozen in a Box.

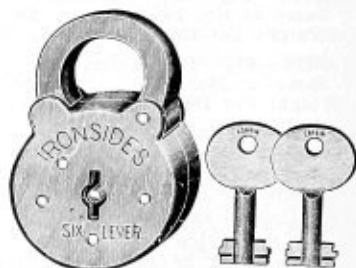
PADLOCKS

Cuts Half Size.



Per Dozen

- No. 09835—2½ in., Polished Cast Brass Case, Copper Plated Wrought Steel Self-Locking Spring Shackle, 6 Changes, 2 Nickel Plated Steel Keys\$10.88
Weight Per Dozen 4¼ Pounds.
One-half Dozen in a Box.

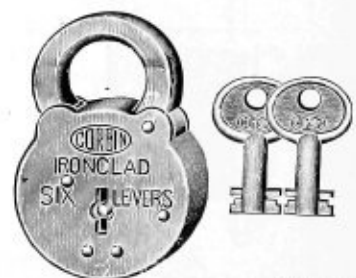


Per Dozen

- No. 915¼ G—2 in., Galvanized Steel Case and Cast Iron Self-Locking Spring Shackle, 6 Brass Secure Levers, 12 Changes, 2 Nickel Plated Steel Double Bitted Keys\$7.50
Weight Per Dozen 4½ Pounds.

With Chain

- No. 915¼ GC—With 9 in. Steel Chain, Otherwise Same as No. 915¼ G 9.30
Weight Per Dozen 5¼ Pounds.
One Dozen in a Box.



Per Dozen

- No. 9925¼—2 in., Brass Plated Wrought Steel Case, Brass Plated Malleable Iron Self-Locking Spring Shackle, 6 Secure Levers, 12 Changes, 2 Brass Plated Malleable Iron Keys\$4.80
Weight Per Dozen 4½ Pounds.
One Dozen in a Box.

PADLOCKS

Cuts Half Size.



No. 02865 $\frac{1}{2}$ —2 $\frac{1}{2}$ in., Polished Cast Bronze Case and Self-Locking Spring Shackle, 3 Wards, 2 Secure Levers, 12 Changes, 2 Nickel Plated Malleable Iron Keys.....\$13.98

Weight Per Dozen 5 $\frac{1}{4}$ Pounds.

One-half Dozen in a Box.



No. 02860 $\frac{1}{2}$ —1 $\frac{3}{4}$ in., Polished Cast Bronze Case and Self-Locking Spring Shackle, 3 Wards, 2 Secure Levers, 12 Changes, 2 Nickel Plated Malleable Iron Keys.....\$11.56

Weight Per Dozen 4 Pounds.

One Dozen in a Box.



No. 2843—2 in., Black Japanned Wrought Steel Case, Nickel Plated Malleable Iron Self-Locking Spring Shackle, Shackle Locked at Both Ends, Secure Levers and Wards, 12 Changes, 2 Nickel Plated Steel Keys.....\$8.40

Weight Per Dozen 3 $\frac{1}{2}$ Pounds.

One Dozen in a Box.

PADLOCKS

Cuts Half Size.



No. 2822 $\frac{1}{4}$ —2 in., Black Japanned Wrought Steel Case, Brass Plated Malleable Iron Self-Locking Spring Shackle, Shackle Locked at Both Ends, Secure Levers and Wards, 12 Changes, 2 Nickel Plated Steel Keys.....\$6.10

No. 2822 $\frac{3}{4}$ —Brass Plated Steel Case, Otherwise Same as No. 2822 $\frac{1}{4}$6.10

No. 2822 $\frac{3}{4}$ -D—Brass Plated Steel Case, Red Center, Otherwise Same as No. 2822 $\frac{3}{4}$6.22

Weight Per Dozen 3 $\frac{1}{4}$ Pounds.

One Dozen in a Box.



No. 926 $\frac{1}{2}$ —2 in., Brass Plated Steel Case, Brass Plated Malleable Iron Self-Locking Spring Shackle, 6 Brass Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys...\$4.80

Weight Per Dozen 4 $\frac{1}{2}$ Pounds.

One Dozen in a Box.



No. 9902 $\frac{1}{4}$ —1 $\frac{1}{2}$ in., Black Japanned Wrought Steel Case, Brass Plated Malleable Iron Self-Locking Spring Shackle, 5 Changes, 2 Nickel Plated Steel Keys.....\$3.30

No. 9902 $\frac{3}{4}$ —Brass Plated Steel Case, Otherwise Same as No. 9902 $\frac{1}{4}$3.30

Weight Per Dozen 2 $\frac{1}{2}$ Pounds.

One Dozen in a Box.

PADLOCKS

Cuts Half Size.



No. 2960 $\frac{1}{4}$ —2 in., Black Japanned Wrought Steel Case, Brass Plated Cast Self-Locking Spring Shackle, 6 Changes, 2 Nickel Plated Malleable Iron Keys.....\$3.30

No. 2960 $\frac{3}{4}$ —Brass Plated Case, Otherwise Same as No. 2960 $\frac{1}{4}$3.30

Weight Per Dozen 3 $\frac{1}{4}$ Pounds.

One Dozen in a Box.

No. 2954 $\frac{3}{4}$.

No. 2953 $\frac{3}{4}$ -B—1 $\frac{1}{2}$ in., Brass Plated Wrought Steel Case, Black Center, Brass Plated Malleable Iron Self-Locking Spring Shackle, 6 Changes, 2 Nickel Plated Steel Keys...\$2.74

Weight Per Dozen 1 Pound.

No. 2954 $\frac{3}{4}$ -B—1 $\frac{1}{2}$ in., Otherwise Same as No. 2953 $\frac{3}{4}$ -B 3.02

Weight Per Dozen 1 $\frac{1}{2}$ Pounds.

No. 2955 $\frac{3}{4}$ -B—1 $\frac{1}{2}$ in., Otherwise Same as No. 2953 $\frac{3}{4}$... 3.30

Weight Per Dozen 2 $\frac{1}{4}$ Pounds.

No. 2956 $\frac{3}{4}$ -B—2 in., Otherwise Same as No. 2953 $\frac{3}{4}$3.60

Weight Per Dozen 3 Pounds.

One Dozen in a Box.



No. 2986 $\frac{3}{4}$ —1 $\frac{1}{2}$ in., Brass Plated Wrought Steel Case, Brass Plated Malleable Iron Self-Locking Spring Shackle, 5 Changes, 2 Nickel Plated Steel Keys.....\$2.46

Weight Per Dozen 1 $\frac{1}{2}$ Pounds.

One Dozen in a Box.

PADLOCKS

Cuts Half Size.



Per Dozen

- No. 2988 $\frac{1}{4}$ — 1 $\frac{1}{2}$ in. Brass Plated Wrought Steel Case, Brass Plated Malleable Iron Self-locking Spring Shackle, 5 Changes, 2 Nickel Plated Steel Keys \$2.46
Weight Per Dozen 1 $\frac{1}{2}$ Pounds.
One Dozen in a Box.



Per Dozen

- No. 2990 $\frac{1}{4}$ — 1x1 in., Black Japanned Wrought Steel Case, Brass Plated Wrought Steel Self-locking Spring Shackle, 3 Secure Levers, 12 Changes, 2 Nickel Plated Steel Keys. \$5.80
No. 02990—All Brass, Otherwise Same as No. 2990 $\frac{1}{4}$... 7.36
Weight Per Dozen 1 Pound.

With Chain

- No. 2990 $\frac{1}{4}$ C—With 9 in. Brass Chain, Otherwise Same as No. 2990 $\frac{1}{4}$ Described Above \$7.96
No. 02990-C—With 9 in. Brass Chain, Otherwise Same as No. 02990 Described Above. 9.42
Weight Per Dozen 1 $\frac{1}{2}$ Pounds.
One Dozen in a Box.



No. 853.

Each

- No. 823—1 $\frac{1}{4}$ in., Wheel Finish Cast Bronze Case and Self-locking Spring Shackle, 3 Lever Tumblers, 48 Changes, 2 Fluted Nickel Bronze Keys \$2.26
Weight Per Box $\frac{3}{4}$ Pound.
No. 833—1 $\frac{1}{2}$ in., Otherwise Same as No. 823..... 2.54
Weight Per Box 1 $\frac{1}{2}$ Pounds.
No. 843—1 $\frac{3}{4}$ in., 4 Lever Tumblers, 72 Changes, Otherwise Same as No. 823.... 2.80
Weight Per Box 2 Pounds.
No. 853—2 in., 4 Lever Tumblers, 144 Changes, Otherwise Same as No. 823..... 3.12
Weight Per Box 3 $\frac{1}{2}$ Pounds.
No. 863—2 $\frac{1}{4}$ in., Otherwise Same as No. 853..... 3.80
Weight Per Box 3 $\frac{3}{4}$ Pounds.
No. 873—2 $\frac{1}{2}$ in., Otherwise Same as No. 853..... 5.49
Weight Per Box 5 $\frac{1}{2}$ Pounds.
Five in a Box.

PADLOCKS

Cuts Half Size.

No. 833 $\frac{1}{2}$.

Each

- No. 823 $\frac{1}{2}$ —1 $\frac{1}{4}$ in., Wheel Finish Cast Bronze Case and Self-locking Spring Shackle, 3 Lever Tumblers, 48 Changes, 2 Fluted Nickel Bronze Keys, with 9 in. Nickel Plated Brass Chain. \$2.46
Weight Per Box, 1 $\frac{1}{2}$ Pounds.
No. 833 $\frac{1}{2}$ —1 $\frac{1}{2}$ in., with 9 in. Tinned Iron Chain, Otherwise Same as No. 823 $\frac{1}{2}$... 2.74
Weight Per Box 2 Pounds.
No. 843 $\frac{1}{2}$ —1 $\frac{3}{4}$ in., 4 Lever Tumblers, 72 Changes, Otherwise Same as No. 833 $\frac{1}{2}$ 3.04
Weight Per Box 2 $\frac{1}{2}$ Pounds.
No. 853 $\frac{1}{2}$ —2 in., 4 Lever Tumblers, 144 Changes, Otherwise Same as No. 833 $\frac{1}{2}$... 3.36
Weight Per Box 3 $\frac{3}{4}$ Pounds.
Five in a Box.



No. 805F.

Each

- No. 803F—1 $\frac{1}{2}$ in., Bower-Barffed Cast Iron Case, Buffed Bronze Self-locking Shackle, 4 Pin Tumblers, 144 Changes, 2 Nickel Plated Steel Keys \$2.00
Weight Per Box 1 $\frac{1}{2}$ Pounds.
No. 805F—2 in., Otherwise Same as No. 803F..... 2.00
Weight Per Box 3 Pounds.
Five in a Box.



- No. 8454—2 in., Bower-Barffed Steel Case and Self-locking Spring Shackle, 4 Lever Tumblers, 144 Changes, 2 Nickel Plated Steel Keys. \$2.62
Weight Per Box 2 $\frac{3}{4}$ Pounds.
Five in a Box.

PADLOCKS

Cuts Half Size.



Each

- No. 815—1 in., Wheel Finish Cast Bronze Case and Self-locking Spring Shackle, 3 Lever Tumblers, 48 Changes, 2 Fluted Nickel Bronze Keys \$2.10
Weight Per Box $\frac{3}{4}$ Pound.
Five in a Box.



Each

- No. 8414—1 in., Bower-Barffed Steel Case and Self-locking Spring Shackle, 3 Lever Tumblers, 48 Changes, 2 Nickel Plated Keys..... \$1.80
Weight Per Box $\frac{3}{4}$ Pound.
Five in a Box.



Each

- No. 326—2 $\frac{1}{4}$ in., Cast Iron Case, Galvanized Steel Discs, Galvanized Steel Self-locking Spring Shackle, Warded, 6 Changes, 2 Nickel Plated Steel Keys. \$0.80
Weight Per Box 1 $\frac{1}{2}$ Pounds.
Five in a Box.



Each

- No. 324—1 $\frac{3}{4}$ in., Bower-Barffed Annealed Iron Case, Copper Plated Steel Discs, Copper Plated Steel Self-locking Spring Shackle, Warded, 6 Changes, 2 Nickel Plated Steel Keys \$0.65
Weight Per Box 1 $\frac{1}{4}$ Pounds.
Five in a Box.

PADLOCKS

Cuts Half Size.



Each

No. 235—2 1/4 in., Bower-Barffed Cast Iron Case, Nickel Plated Steel Self-Locking Spring Shackle, Warded, 6 Changes, 2 Nickel Plated Steel Keys\$0.66

Weight Per Box 3 Pounds.

Five in a Box.



Each

No. 225—2 in., Bower-Barffed Cast Iron Case, Brass Plated Wrought Steel Panels, Brass Plated Steel Self-Locking Spring Shackle, Warded, 6 Changes, 2 Nickel Plated Steel Keys.....\$0.66

Weight Per Box 2 1/2 Pounds.

Five in a Box.



Per Dozen

No. 1—2 1/4 in., Gun Metal Case, Brass Self-Locking Spring Shackle, Brass Interior Parts, Gun Metal Springs, Secure Lever Mechanism, Changes Unlimited, 2 Nickel Plated Steel Keys.....\$20.32

Weight Per Dozen 5 1/4 Pounds.

With Chain

No. 1XC—With 8 in. Steel Chain, Otherwise Same as No. 1 22.12

Weight Per Dozen 7 Pounds.

One-half Dozen in a Box.

PADLOCKS

Cuts Half Size.



Per Dozen

No. 7121—2 1/4 in., Ebony Black Carbon Steel Case, Hardened Steel Self-Locking Spring Shackle, Reinforced Armor Plates, 6 Secure Levers, Changes Unlimited, 2 Nickel Plated Steel Keys.....\$36.00

Weight Per Dozen 10 Pounds.

One-half Dozen in a Box.



Per Dozen

No. 999—1 1/2 in., Cast Bronze Case and Self-Locking Spring Shackle, 6 Changes, 2 Nickel Plated Steel Keys.....\$26.16

This Padlock is the heaviest of its size in the Miller line, and built to stand up under continuous service.

Weight Per Dozen 6 3/4 Pounds.

One-half Dozen in a Box.



Per Dozen

No. 88—1 1/2 in., Black Enamelled Steel Case, Brass Plated Malleable Iron Self-Locking Spring Shackle, Brass Plated Escutcheon, 12 Changes, 2 Nickel Plated Steel Keys\$5.40

Shackles are bolted at nose as well as the heel which gives additional strength and security.

Weight Per Dozen 3 1/2 Pounds.

One-half Dozen in a Box.

PADLOCKS

Cuts Half Size.



Per Dozen

No. 521—2 in., Black Enamelled Steel Case, Nickel Plated Malleable Iron Self-Locking Spring Shackle, Shackle Bolted at Both Ends, 12 Changes, 2 Nickel Plated Malleable Iron Barrel Keys.....\$5.28

Weight Per Dozen 3 Pounds.

One-half Dozen in a Box.



Per Dozen

No. 21—2 in., Black Enamelled Steel Case, Nickel Plated Malleable Iron Self-Locking Spring Shackle, Shackle Bolted at Both Ends, 12 Changes, 2 Nickel Plated Steel Keys\$5.00

Weight Per Dozen 2 1/2 Pounds.

One-half Dozen in a Box.



Per Dozen

No. 100B—1 1/2 in., Black Enamelled Steel Case, Nickel Plated Malleable Iron Self-Locking Spring Shackle, 2 Nickel Plated Steel Keys.....\$2.50

Weight Per Dozen 1 1/4 Pounds.

One-half Dozen in a Box.

We are prepared to furnish Locks for any purpose. Information and price furnished on request.

PADLOCKS

Cuts Half Size.

Per Dozen



No. 34—Combination, 2 in., Black Enameled Steel Case, Nickel Plated Malleable Iron Shackle, Brass Interior Parts, Nickel Plated Knob and Dial....\$26.16

A strong practical lock, warranted against any defect, giving full security.

It may be opened in five seconds by aid of either sight, touch or sound. All combinations are recorded and if lost can be obtained from the factory.

Weight Per Dozen 6 Pounds.
One in a Box, with Directions.



No. 0— $\frac{3}{4}$ in., Polished Cast Bronze Case and Self-Locking Spring Shackle, 8 Changes, 2 Bronze Barrel Keys....\$5.35
Weight Per Dozen $\frac{3}{4}$ Pound.



No. A—1 in., 12 changes, Otherwise Same as No. 0.....5.70
Weight Per Dozen $\frac{3}{4}$ Pound.

No. 70.

No. 70— $1\frac{1}{2}$ in., 12 Changes, Otherwise Same as No. 0.....6.85
Weight Per Dozen $\frac{3}{4}$ Pound.

No. 71— $1\frac{1}{2}$ in., 12 Changes, Otherwise Same as No. 0.....7.50
Weight Per Dozen $1\frac{1}{4}$ Pounds.
One Dozen in a Box.



No. 72— $1\frac{1}{2}$ in., Polished Cast Bronze Case and Self-Locking Spring Shackle, 1 Tumbler, 48 Changes, 2 Bronze Barrel Keys.....\$11.00
Weight Per Dozen 2 Pounds.



No. 73— $1\frac{1}{2}$ in., 96 Changes, Otherwise Same as No. 72.....12.50
Weight Per Dozen $3\frac{1}{4}$ Pounds.

No. 72.

With Chain

No. 72A— $1\frac{1}{2}$ in., Polished Cast Bronze Case and Self-Locking Spring Shackle, 1 Tumbler, 48 Changes, 2 Bronze Barrel Keys, with 9 in. Chain.....\$12.75
Weight Per Dozen $2\frac{1}{2}$ Pounds.

Nos. 72 and 72A, One Dozen; No. 73, One-half Dozen in a Box.



No. 74—2 in., Polished Cast Bronze Case and Self-Locking Spring Shackle, Plain Cover on Key Hole, 1 Tumbler, 96 Changes, 2 Bronze Barrel Keys.....\$14.40
Weight Per Dozen $4\frac{1}{4}$ Pounds.

With Chain

No. 75—With 9 in. Japanned Chain, Otherwise Same as No. 74.....16.15
Weight Per Dozen $5\frac{3}{4}$ Pounds.
One-half Dozen in a Box.

PADLOCKS

Cuts Half Size.

Per Dozen



No. 79— $2\frac{1}{4}$ in., Polished Cast Bronze Case and Self-Locking Spring Shackle, Plain Cover Over Key Hole, One Tumbler, 240 Changes, 2 Bronze Barrel Keys, with 9 in. Japanned Chain.....\$17.40

Weight Per Dozen 8 Pounds.

Without Chain

Per Dozen

No. 78— $2\frac{1}{4}$ in., Polished Cast Bronze Case and Self-Locking Spring Shackle, Plain Cover Over Key Hole, 1 Tumbler, 240 Changes, 2 Bronze Barrel Keys.....\$15.40

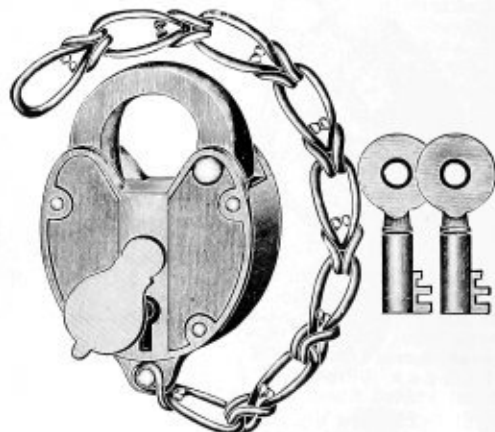
Weight Per Dozen $6\frac{1}{4}$ Pounds.
One-half Dozen in a Box.



No. 85— $2\frac{1}{2}$ in., Polished Cast Bronze Case and Self-Locking Spring Shackle, Spring Cover Over Key hole, One Tumbler, 240 Changes, 2 Bronze Barrel Keys, with 9 in. Japanned Chain.....\$21.00

Weight Per Dozen $10\frac{1}{4}$ Pounds.

One-half Dozen in a Box.



No. 960-C— $2\frac{1}{2}$ in., Red Enameled Malleable Iron Case, Polished Malleable Iron Self-Locking Spring Shackle, Bronze Drop, 4 Secure Levers, 36 Changes, 2 Polished Bronze Keys.....\$31.20

Weight Per Dozen $10\frac{3}{4}$ Pounds.
One-half Dozen in a Box.

PADLOCK ASSORTMENTS

CORBIN

Contents of Assortment
One-quarter Dozen Each

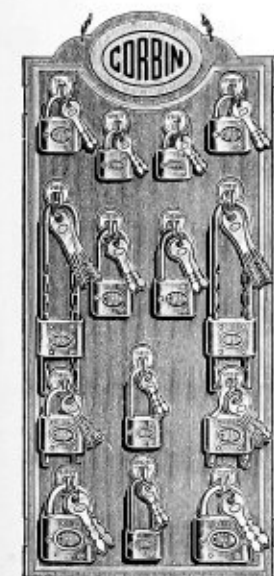
- No. 981 1/4—2 in., Steel Black Japanned, Nickel Plated Shackle.
- No. 2822 3/4-D—2 in., Steel, Brass Plated, Red Center.
- No. 2918 1/4—2 in., Steel, Black Japanned, Nickel Plated Shackle.
- No. 2953 1/4-A—1 1/2 in., Steel, Black Japanned, Gilt Center.
- No. 2955 1/4-A—1 3/4 in., Steel, Black Japanned, Gilt Center.
- No. 09827—1 1/4 in., Cast Brass, Polished.
- No. 09828—1 1/2 in., Cast Brass, Polished.
- No. 9831 3/4—1 3/4 in., Steel, Brass Plated.
- No. 9832 1/4-E—2 in., Steel, Green Enameled, Gilt Center.
- No. 09835—2 1/2 in., Cast Brass, Polished.
- No. 09838—1 1/2 in., Cast Brass, Polished.
- No. 9925A—2 in., Steel, Brass Plated.
- One Each
- No. 02829—2 1/2 in., Cast Brass, Polished.
- No. 09870—1 3/4 in., Cast Brass.
- No. 09899—2 in., Cast Bronze.

Per Assortment

- No. 5002 Assortment—Consists of 3 1/4 Dozen Assorted Padlocks, One of Each Style Mounted on a 20 1/2 x 9 1/4 in. Walnut Finished Steel Display Panel, with Hinges to Swing Right and Left, or can be Suspended by the Chain.....\$24.36

Weight Per Assortment 13 3/4 Pounds.

One Assortment in a Box.

Contents of Assortment
One-sixth Dozen Each

- No. 02829—2 1/2 in., Polished Cast Brass Case, Nickel Plated Steel Shackle.
- No. 09827—1 1/4 in., Polished Cast Brass Case, Nickel Plated Steel Shackle.
- No. 09827-H—1 1/4 in., Polished Cast Brass Case, Nickel Plated Steel Shackle.
- No. 09828—1 1/2 in., Polished Cast Brass Case, Nickel Plated Steel Shackle.
- No. 09828-H—1 1/2 in., Polished Cast Brass Case, Nickel Plated Steel Shackle.
- No. 09830—1 1/2 in., Polished Cast Brass Case, Nickel Plated Steel Shackle.
- No. 09838—1 3/4 in., Polished Cast Brass Case, Nickel Plated Steel Shackle.

Per Assortment

- No. 5001 Assortment—Consists of 1 1/4 Dozen Assorted Padlocks Mounted on a 20 1/2 x 9 1/4 in. Walnut Finished Steel Display Panel, with Hinges to Swing Right and Left, or can be Suspended by the Chain.....\$14.00

Weight Per Assortment 8 Pounds.

One Assortment in a Box.

PADLOCK ASSORTMENTS

CORBIN

Contents of Assortment
One-quarter Dozen Each

- No. 981 1/4—2 in., Steel, Black Japanned, Nickel Plated Shackle.
- No. 2806 1/4—2 in., Steel, Black Japanned, Brass Plated Shackle.
- No. 2809 3/4—1 1/2 in., Steel, Brass Plated.
- No. 2822 3/4-D—2 in., Steel, Brass Plated, Red Center.
- No. 2918 1/4—2 in., Steel, Black Japanned, Nickel Plated Shackle.
- No. 2953 1/4-A—1 1/2 in., Steel, Black Japanned, Gilt Center.
- No. 2956 1/4-A—2 in., Steel, Black Japanned, Gilt Center.
- No. 2988 1/4—1 1/2 in., Steel, Black Japanned, Nickel Plated Shackle.
- No. 2993 3/4—1 1/2 in., Steel, Brass Plated.
- No. 9831 3/4-B—1 3/4 in., Steel, Brass Plated, Black Center.
- No. 9832 1/4-E—2 in., Steel, Green Enameled, Gilt Center.
- No. 9925-A—2 in., Steel, Brass Plated.

One Each

- No. 02829—2 1/2 in., Cast Brass, Polished.
- No. 09827—1 1/4 in., Cast Brass, Polished.
- No. 09828—1 1/2 in., Cast Brass, Polished.

Per Assortment

- No. 5000 Assortment—Consists of 3 1/4 Dozen Assorted Padlocks, One of Each Style Mounted on a 20 1/2 x 9 1/4 in. Walnut Finished Steel Display Panel, with Hinges to Swing Right and Left, or can be Suspended by the Chain.....\$16.00

Weight Per Assortment 12 1/2 Pounds.

One Assortment in a Box.

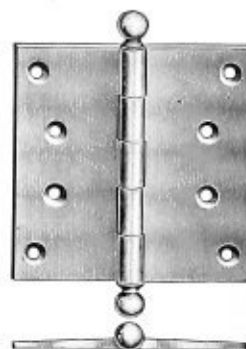
DOG COLLAR PADLOCKS
ASSORTED

Per Assortment

- No. AC Assortment—Consists of One Dozen 3/4 in. Brass Padlocks, 6 Polished Brass and 6 Nickel Plated.....\$5.00

Weight Per Assortment 3/4 Pound.

One Assortment in a Box.

LOOSE PIN BUTTSCORBIN, STEEL BUSHED
NON-RISEING STEEL PIN**No. 61—Cast Bronze**

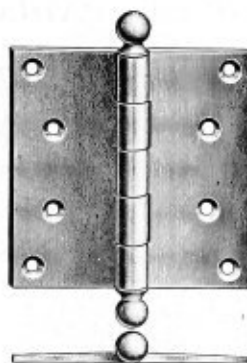
Steel Bushed, Ball Tips.

Not made to Templet. Can be furnished with Brass Pins or with Button Head Tips when so ordered.

Per Pair

| Size, Inches | Weight Per Dozen Pairs, Lbs. | Polished Brass or Bronze, Old Copper, Dull Brass | Sand Finishes and Nickel Plated |
|-----------------|------------------------------------|---|---------------------------------------|
| 3 x3 | 11 1/2 | \$3.55 | \$3.85 |
| 3 1/2 x3 1/2 | 16 1/2 | 4.00 | 4.35 |
| 4 x4 | 21 | 4.65 | 5.00 |
| 4 1/2 x4 1/2 | 30 | 6.00 | 6.45 |
| 5 x5 | 39 | 7.35 | 7.80 |
| 6 x6 | 64 | 14.45 | 15.00 |

One Pair in a Box, with Screws.

CORBIN, STEEL BUSHED
NON-RISEING STEEL PIN**No. 61 1/2—Heavy Cast Bronze**

Steel Bushed, Ball Tips, Self-Lubricating.

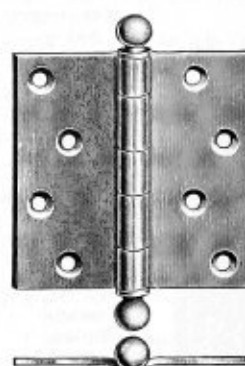
Not made to Templet, can be furnished with Brass Pins or with Button Tips when so ordered.

Per Pair

| Size, Inches | Weight Per Dozen Pairs, Lbs. | Polished Brass or Bronze, Old Copper, Dull Brass | Sand Finishes and Nickel Plated |
|-----------------|------------------------------------|---|---------------------------------------|
| 3 x3 | 13 1/2 | \$4.45 | \$4.80 |
| 3 1/2 x3 1/2 | 15 3/4 | 4.85 | 5.35 |
| 4 x4 | 25 | 6.20 | 6.65 |
| 4 1/2 x4 1/2 | 34 | 8.45 | 8.95 |
| 5 x5 | 42 | 10.20 | 10.65 |
| 6 x6 | 68 | 16.65 | 17.35 |

One Pair in a Box, with Screws.

Note—Heavy Doors should be Hung with Three Butts.

LOOSE PIN BUTTSCORBIN, STEEL BUSHED
NON-RISEING STEEL PIN**No. 275—Heavy Wrought Bronze**

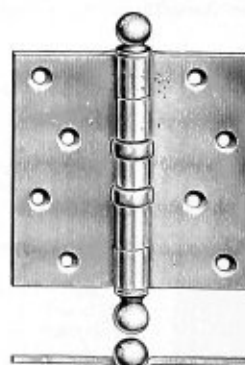
Steel Bushed, Ball Tips.

Made to Templet or furnished with Brass Pin or with Button Tips when so ordered.

Per Pair

| Size, Inches | Weight Per Dozen Pairs, Lbs. | B Pol- ished Bronze, EA Dull Brass | SKA Sanded Brass |
|-----------------|------------------------------------|--|---------------------|
| 3 x3 | 12 | \$3.25 | \$3.55 |
| 3 1/2 x3 1/2 | 17 1/4 | 3.55 | 3.85 |
| 4 x4 | 22 1/2 | 4.20 | 4.65 |
| 4 1/2 x4 1/2 | 30 3/4 | 5.30 | 5.75 |
| 5 x5 | 39 | 6.60 | 6.90 |
| 6 x6 | 60 | 12.90 | 13.35 |

One Pair in a Box, with Screws.

CORBIN, BALL BEARING
NON-RISEING STEEL PIN**No. 280—Heavy Wrought Bronze**

Steel Bushed, Ball Tips.

Made to Templet or furnished with Brass Pin or with Button Tips when so ordered.

Per Pair

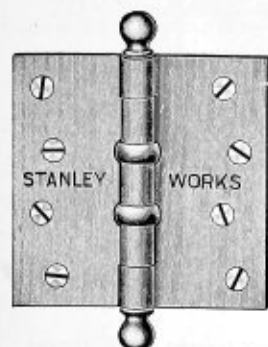
| Size, Inches | Weight Per Dozen Pairs, Lbs. | B Pol- ished Bronze, EA Dull Brass | SKA Sanded Brass |
|-----------------|------------------------------------|--|---------------------|
| 3 x3 | 12 | \$3.90 | \$4.20 |
| 3 1/2 x3 1/2 | 17 1/4 | 4.20 | 4.50 |
| 4 x4 | 24 | 4.85 | 5.30 |
| 4 1/2 x4 1/2 | 31 1/2 | 6.00 | 6.45 |
| 5 x5 | 39 3/4 | 7.25 | 7.55 |
| 6 x6 | 60 | 13.55 | 14.00 |

One Pair in a Box, with Screws.

LOOSE PIN BUTTS

STANLEY, BALL BEARING

NON-DETACHABLE WASHERS, BALL TIPS



No. BB241 — Wrought Steel, Planished and Plated

Made of Cold Rolled Steel, Weather Protected Ball Bearing Washers. The Ball Tip and Pin made in one piece, Non-rising, Self-lubricating Pin, prevents wear on inside of knuckles.

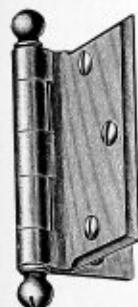
Per Pair

| Size, Inches | No. of Screw Holes | Size of Screws | Weight Per Pair, Lbs. | A D2 F | SF4 Sanded Finish | N Nickel Plated |
|---------------|--------------------|----------------|-----------------------|--------|-------------------|-----------------|
| 2 1/2 x 2 1/2 | 6 | 3/8 x 8 | 9/10 | \$1.45 | \$1.53 | \$1.58 |
| 3 x 3 | 6 | 1 x 8 | 1 1/10 | 1.49 | 1.57 | 1.62 |
| 3 1/2 x 3 1/2 | 6 | 1 x 9 | 1 1/2 | 1.50 | 1.60 | 1.68 |
| 4 x 4 | 8 | 1 x 10 | 1 3/4 | 1.70 | 1.80 | 1.88 |
| 4 1/2 x 4 1/2 | 8 | 1 1/4 x 10 | 2 1/4 | 2.15 | 2.30 | 2.40 |
| 5 x 5 | 10 | 1 1/4 x 12 | 3 | 3.20 | 3.35 | 3.45 |

One Pair in a Box, with Screws.

STANLEY HALF SURFACE

BEVELED EDGE SURFACE LEAF, BALL TIPS



No. 165—Wrought Steel, Planished and Plated

The Slot in the lower Ball Tip allows the tip to be unscrewed for the purpose of reversing the butt.

These butts effect economy in the cost of hanging doors. The surface leaf is applied to the door without mortising.

Per Pair

| Size, Length, Inches | No. of Screw Holes | Size of Screws | Weight Per Pair, Lbs. | A D2 F | SF4 Sanded Finish |
|----------------------|--------------------|----------------|-----------------------|--------|-------------------|
| 2 1/2 | 4 | 3/4 x 5 | 1/2 | \$0.85 | \$0.93 |
| 3 | 6 | 1 x 8 | 9/10 | .95 | 1.03 |
| 3 1/2 | 6 | 1 x 8 | 1 1/2 | 1.05 | 1.15 |
| 4 | 8 | 1 x 10 | 2 | 1.35 | 1.45 |
| 4 1/2 | 8 | 1 x 10 | 2 1/2 | 1.75 | 1.90 |

2 1/2 in., Three Pairs; Larger Sizes, One Pair in a Box, with Screws.

Note—Also Packed and Priced Three Pair in a Box constituting a set.

LOOSE PIN BUTTS

STANLEY, PLAIN BEARING

NON-RISING STEEL PIN, BALL TIPS



No. 241 1/2 — Wrought Steel, Polished and Plated

These Butts are made of Cold Rolled Steel, heavily plated and finely finished. Five Knuckles in Joint, Ball Tip and Pin, made from one piece of Steel, Polished Barrel, True to Alignment.

Per Pair

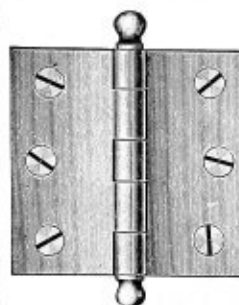
| Size, Inches | No. of Screw Holes | Size of Screws | Weight Per Pair, Lbs. | A D2 F C | SF4 Sanded Finish | N Nickel Plated |
|---------------|--------------------|----------------|-----------------------|----------|-------------------|-----------------|
| 2 1/2 x 2 1/2 | 6 | 3/8 x 8 | 1/2 | \$1.40 | \$1.48 | \$1.53 |
| 3 x 3 | 6 | 1 x 8 | 9/10 | 1.45 | 1.53 | 1.58 |
| 3 1/2 x 3 1/2 | 6 | 1 x 9 | 1 1/2 | 1.60 | 1.70 | 1.78 |
| 4 x 4 | 8 | 1 x 10 | 1 3/4 | 1.85 | 1.95 | 2.03 |
| 4 1/2 x 4 1/2 | 8 | 1 1/4 x 10 | 2 1/4 | 2.30 | 2.45 | 2.55 |
| 5 x 5 | 10 | 1 1/4 x 12 | 3 | 3.40 | 3.55 | 3.65 |
| 6 x 6 | 10 | 1 1/2 x 14 | 4 1/2 | 5.40 | 5.60 | ..... |

Any of the above butts can be furnished sheradized before plating, this finish being recommended for hinges exposed to weather or damp atmosphere. In ordering, prefix the letter Z to above numbers which designate this finish.

2 1/2 x 2 1/2 in., Three Pairs; Others, One Pair in a Box, with Screws.

STANLEY PLAIN BEARING

NON-RISING STEEL PIN, BALL TIPS



No. 241 — Wrought Steel, Planished and Plated

Made of Cold Rolled Steel, Planished and Plated, 2 1/2 x 2 1/2 in. and larger have five Knuckles in Joint, Ball Tip and Pin made from one piece of Steel, Pin closely fitted in Knuckle.

Per Pair

| Size, Inches | No. of Screw Holes | Size of Screws | Weight Per Pair, Lbs. | A D2 F C | SF4 Sanded Finish | N Nickel Plated | G Bower-Barff Brass Screws |
|---------------|--------------------|----------------|-----------------------|----------|-------------------|-----------------|----------------------------|
| 2 x 2 | 4 | 3/4 x 7 | 1/2 | \$0.65 | \$0.73 | \$0.78 | \$1.15 |
| 2 1/2 x 2 1/2 | 6 | 3/8 x 7 | 1/2 | .70 | .78 | .83 | 1.20 |
| 3 x 3 | 6 | 1 x 8 | 9/10 | .74 | .82 | .87 | 1.24 |
| 3 1/2 x 3 1/2 | 6 | 1 x 9 | 1 1/2 | .75 | .85 | .93 | 1.63 |
| 4 x 4 | 8 | 1 x 10 | 1 3/4 | .95 | 1.05 | 1.13 | 1.83 |
| 4 1/2 x 4 1/2 | 8 | 1 1/4 x 10 | 2 1/4 | 1.40 | 1.55 | 1.65 | 3.28 |
| 5 x 5 | 10 | 1 1/4 x 12 | 3 | 2.45 | 2.60 | 2.70 | 4.33 |
| 6 x 6 | 10 | 1 1/2 x 14 | 4 1/2 | 4.30 | 4.50 | 4.63 | 9.95 |

2 1/2 in. and Smaller, Three Pairs; Larger Sizes, One Pair in a Box, with Screws.

Note—Heavy Doors Should be Hung with Three Butts.

LOOSE PIN BUTTS

STANLEY LIGHT, BALL TIPS



No. 289—Wrought Steel Planished and Plated

Made of highest grade cold rolled steel, used on the lighter weight doors such as china closets, cabinets and book cases. Ball Tip and Pin made from one piece of steel.

Per Dozen Pairs

| Size Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | A D2 F | SP4 Sand Finish | N Nickel Plated | G Bowe Barff Brass Screws |
|--------------|--------------------|----------------|--------------------------|--------|-----------------|-----------------|---------------------------|
| 2 x2 | 4 | 3/8 x7 | 3 | \$5.50 | \$6.15 | \$6.75 | \$10.00 |
| 2 1/2 x2 | 6 | 3/8 x7 | 3 1/2 | 5.75 | 6.40 | 7.00 | 10.60 |
| 2 1/2 x2 1/2 | 6 | 3/8 x7 | 4 | 6.10 | 6.75 | 7.35 | 11.60 |
| 3 x3 | 6 | 3/8 x8 | 6 1/2 | 7.75 | 8.40 | 9.00 | 15.60 |

2 1/2 x2 1/2 in. and Larger Have Five Knuckles; Smaller Sizes Three.

One-half Dozen Pairs in a Box, with Screws.

No. 189N—Wrought Brass, Nickel Plated

| | | | |
|-----------------|--------|----------|--------------|
| Size, Inches | 2x2 | 2 1/2 x2 | 2 1/2 x2 1/2 |
| Per Dozen Pairs | \$9.60 | 11.60 | 14.00 |

2 1/2 x2 in. and Larger Have Five Knuckles; Smaller Sizes Three.

One-half Dozen Pairs in a Box, with Screws.

STANLEY LIGHT NARROW, BALL TIPS



No. 295—Wrought Steel, Planished and Plated

Made of high grade cold rolled steel, used on light doors such as china closets, cabinets and book cases.

2 1/2 in. and Larger Have Five Knuckles; Smaller Sizes Three.

Per Dozen Pairs

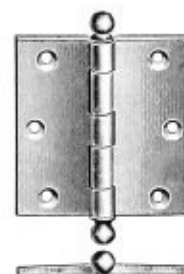
| Size Length Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | A D2 F | SP4 Sand Finish | N Nickel Plated |
|--------------------|--------------------|----------------|--------------------------|--------|-----------------|-----------------|
| 2 | 4 | 3/8 x6 | 2 3/8 | \$5.15 | \$5.80 | \$6.40 |
| 2 1/2 | 6 | 3/8 x6 | 3 | 5.75 | 6.40 | 7.00 |
| 3 | 6 | 3/8 x7 | 4 1/8 | 7.10 | 7.75 | 8.40 |

One-half Dozen Pairs in a Box, with Screws.

CORBIN BRASS PIN, BALL TIPS

No. 102 3/4—Cast Bronze, Polished

Per Dozen Pairs



| Size Inches | Weight Dozen Pairs, Lbs. | Polished Brass or Bronze Old Copper Dull Brass | Sand finishes and Nickel Plated | P Rustless Iron |
|--------------|--------------------------|--|---------------------------------|-----------------|
| 2 x1 1/2 | 3 | \$1.60 | \$1.75 | \$1.15 |
| 2 x2 | 3 1/2 | 1.85 | 2.00 | 1.25 |
| 2 1/2 x2 | 4 | 2.20 | 2.40 | 1.45 |
| 2 1/2 x2 1/2 | 6 1/2 | 2.40 | 2.60 | 1.60 |
| 3 x2 1/2 | 8 1/2 | 3.00 | 3.35 | 2.00 |
| 3 x3 | 10 3/4 | 3.35 | 3.65 | 2.35 |

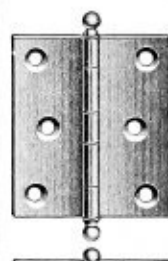
3x3 in., One-half Dozen Pairs; Smaller Sizes, One Dozen Pairs in a Box, with Screws.

LOOSE PIN BUTTS

CORBIN CABINET, BALL TIPS

No. 039 1/2—Wrought Bronze, Steel Pins

Per Dozen Pairs



| Size Inches | Weight Per Dozen Pairs, Lbs. | Polished |
|--------------|------------------------------|----------|
| 1 1/2 x1 1/4 | 1 | \$2.40 |
| 2 x1 3/4 | 1 1/2 | 3.60 |
| 2 1/2 x1 3/4 | 2 3/4 | 4.50 |
| 3 x2 | 4 1/4 | 7.00 |

One Dozen Pairs in a Box, with Screws.

STANLEY BALL TIPS

No. 823—Wrought Steel, Bright

Made of high grade cold rolled steel. The Pin and Tip are made of one piece of steel.

Sizes 3 1/2 x3 1/2 and Larger Have Five Knuckles in the Joint; Smaller Sizes Have Three.

Per Dozen Pairs

| Size, Inches | No. of Screw Holes | Size of Screws | Weight Per Dozen Pairs, Lbs. | Bright Without Screws |
|--------------|--------------------|----------------|------------------------------|-----------------------|
| 2 x2 | 4 | 3/8 x 7 | 3 3/8 | \$ 4.15 |
| 2 1/2 x2 | 6 | 3/8 x 7 | 4 1/4 | 4.55 |
| 2 1/2 x2 1/2 | 6 | 7/8 x 8 | 6 | 4.65 |
| 3 x2 1/2 | 6 | 1 x 8 | 7 1/2 | 4.90 |
| 3 x3 | 6 | 1 x 8 | 8 1/2 | 5.00 |
| 3 1/2 x3 | 6 | 1 x 9 | 10 1/4 | 5.25 |
| 3 1/2 x3 1/2 | 6 | 1 x 9 | 14 1/2 | 5.50 |
| 4 x4 | 8 | 1 x10 | 19 1/4 | 7.15 |
| 4 1/2 x4 1/2 | 8 | 1 1/4 x10 | 25 1/2 | 9.75 |
| 5 x5 | 10 | 1 1/4 x12 | 32 1/2 | 13.10 |
| 6 x6 | 10 | 1 1/2 x12 | 50 1/2 | 21.50 |

4x4 and Smaller One-half Dozen Pairs; Larger Sizes One-quarter Dozen Pairs in a Box, without Screws.

STANLEY BALL TIPS

No. 731J—Wrought Steel, Japanned

Made of high grade cold rolled steel. The Pin and Tip are made of one piece of steel.

Sizes 3 1/2 x3 1/2 and Larger Have Five Knuckles in the Joint; Smaller Sizes Have Three.

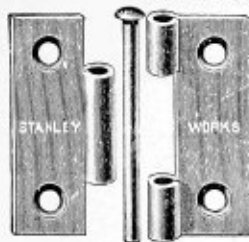
Per Dozen Pairs

| Size, Inches | No. of Screw Holes | Size of Screws | Weight Per Dozen Pairs, Lbs. | Japanned Without Screws |
|--------------|--------------------|----------------|------------------------------|-------------------------|
| 2 x2 | 4 | 3/8 x 7 | 3 3/8 | \$ 4.60 |
| 2 1/2 x2 1/2 | 6 | 3/8 x 8 | 6 | 5.00 |
| 3 x2 1/2 | 6 | 1 x 8 | 7 1/2 | 5.25 |
| 3 x3 | 6 | 1 x 8 | 8 1/2 | 5.50 |
| 3 1/2 x3 1/2 | 6 | 1 x 9 | 14 1/2 | 6.00 |
| 4 x4 | 8 | 1 x10 | 19 1/4 | 7.50 |
| 4 1/2 x4 1/2 | 8 | 1 1/4 x10 | 25 1/2 | 10.00 |
| 5 x5 | 10 | 1 1/4 x12 | 32 1/2 | 13.75 |
| 6 x6 | 10 | 1 1/2 x14 | 50 1/2 | 23.65 |

4x4 and Smaller One-half Dozen Pairs; Larger Sizes One-quarter Dozen Pairs in a Box, without Screws.

LOOSE PIN BUTTS

STANLEY LIGHT NARROW



No. 840—Wrought Steel, Bright

These Butts may be reversed by removing the oval head loose pin.

2½ in. and larger sizes have Five Knuckles, smaller sizes Three.

Per Dozen Pairs.

| Size Length, Inches | Width Open, Inches | No. of Screw Holes | Size of Screws, No. | Weight Per Dozen Pairs, Lbs. | Bright Without Screws |
|---------------------|--------------------|--------------------|---------------------|------------------------------|-----------------------|
| 1 | 1 | 4 | 3 | 1½ | \$0.85 |
| 1¼ | 1¼ | 4 | 4 | 2½ | 1.10 |
| 1½ | 1½ | 4 | 5 | 3½ | 1.35 |
| 1¾ | 1¾ | 4 | 6 | 4½ | 1.65 |
| 2 | 2 | 4 | 6 | 5½ | 1.80 |
| 2¼ | 2¼ | 6 | 6 | 6½ | 2.00 |
| 2½ | 2½ | 6 | 6 | 7½ | 2.05 |
| 3 | 3 | 6 | 7 | 8½ | 2.85 |

One Dozen Pairs in a Box, without Screws.

STANLEY LIGHT NARROW



No. 286—Wrought Steel, Planished and Plated

These Butts may be reversed by removing the oval head loose pin.

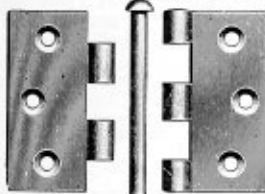
2½ in. and larger sizes have Five Knuckles, smaller sizes Three.

Per Dozen Pairs.

| Size Length, In. | Width Open, In. | No. Screw Holes | Size of Screws, No. | Weight Per Dozen Pairs, Lbs. | A D2 F C | SF4 Sand Finish | H Dead Black |
|------------------|-----------------|-----------------|---------------------|------------------------------|----------|-----------------|--------------|
| 1½ | 1½ | 4 | 5 | 1 | \$3.50 | | |
| 2 | 2 | 4 | 6 | 2 | 4.25 | \$4.80 | \$5.05 |
| 2¼ | 2¼ | 6 | 6 | 2½ | 4.35 | 4.90 | 5.15 |
| 2½ | 2½ | 6 | 6 | 2¾ | 5.05 | 5.60 | 5.85 |
| 3 | 3 | 6 | 7 | 4 | 5.90 | 6.45 | 6.70 |

One Dozen Pairs in a Box, with Screws.

STANLEY REGULAR REVERSIBLE



No. 1334R—Wrought Steel, Galvanized

These Butts are swaged and have oval head loose pins.

2½x2 in. and larger have Five Knuckles, smaller sizes Three.

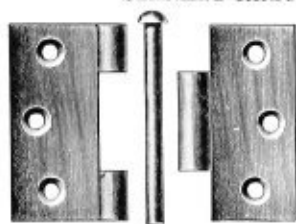
Per Dozen Pairs.

| Size Inches | No. of Screw Holes | Size of Screws | Weight Per Dozen Pairs, Lbs. | R Galvanized With Screws |
|-------------|--------------------|----------------|------------------------------|--------------------------|
| 2 x2 | 4 | ¾ x 7 | 3 | \$ 6.70 |
| 2½ x2½ | 6 | ¾ x 8 | 5 | 7.55 |
| 3 x3 | 6 | 1 x 9 | 7½ | 9.20 |
| 3½ x3½ | 6 | 1 x 9 | 11½ | 13.05 |
| 4 x4 | 8 | 1 x10 | 15 | 17.40 |
| 4½ x4½ | 8 | 1¼ x10 | 20 | 21.05 |
| 5 x5 | 10 | 1¼ x12 | 22 | 32.00 |
| 6 x6 | 10 | 1½ x14 | 40 | 75.00 |

4x4 in. and Smaller, One-half Dozen Pairs; 4½x4½ in. and 5x5 in., One-quarter Dozen; 6x6 in., One-twelfth Dozen Pairs in a Box, with Screws.

LOOSE PIN BUTTS

STANLEY REGULAR REVERSIBLE



No. 804—Wrought Steel, Bright

These Butts are swaged and have oval head loose pins.

2½x2 in. and larger have Five Knuckles, smaller sizes Three.

Per Dozen Pairs.

| Size Inches | No. of Screw Holes | Size of Screws | Weight Per Dozen Pairs, Lbs. | Dozen Pair in Case | Average Weight Case Lbs. | Bright Without Screws |
|-------------|--------------------|----------------|------------------------------|--------------------|--------------------------|-----------------------|
| 2 x2 | 4 | ¾ x 7 | 3 | 25 | 76 | \$ 3.45 |
| 2½ x2½ | 6 | ¾ x 8 | 4 | 25 | 105 | 3.85 |
| 3 x3 | 6 | ¾ x 8 | 5 | 25 | 121 | 4.00 |
| 3½ x3½ | 6 | 1 x 9 | 6½ | 15 | 93 | 4.25 |
| 4 x4 | 8 | 1 x 9 | 7½ | 15 | 110 | 4.30 |
| 4½ x4½ | 8 | 1 x 9 | 9½ | 15 | 147 | 5.45 |
| 5 x5 | 10 | 1 x 9 | 11½ | 15 | 169 | 5.75 |
| 6 x6 | 10 | 1 x10 | 15 | 10 | 148 | 7.45 |
| 4½ x4½ | 8 | 1¼ x10 | 20 | 5 | 102 | 10.15 |
| 5 x5 | 10 | 1¼ x12 | 22 | 5 | 110 | 13.60 |
| 6 x6 | 10 | 1½ x14 | 40 | 3 | 121 | 22.85 |

3x3 in. and Smaller, One Dozen Pairs; 3½x3 to 4x4 in., One-half Dozen Pairs; 4½x4½ and 5x5 in., One-quarter Dozen Pairs; 6x6 in., One-twelfth Dozen Pairs in a Box, without Screws.

BROAD OR TRANSOM BUTTS

STANLEY, FAST JOINT



No. 808—Wrought Steel, Bright

The ends of pins are spun, thus making fast joints.

First dimension always indicates length of joint.

Per Dozen Pairs.

| Size Inches | No. of Screw Holes | Size of Screws | Weight Per Dozen Pairs, Lbs. | Bright Without Screws |
|-------------|--------------------|----------------|------------------------------|-----------------------|
| 2 x2 | 4 | ¾ x 7 | 3 | \$ 2.85 |
| 2½ x2½ | 6 | ¾ x 8 | 5 | 3.45 |
| 3 x3 | 6 | 1 x 9 | 7½ | 3.70 |
| 3½ x3½ | 6 | 1 x 9 | 11 | 5.60 |
| 4 x4 | 8 | 1 x10 | 15 | 7.00 |
| 4½ x4½ | 8 | 1¼ x10 | 20 | 9.60 |
| 5 x5 | 10 | 1¼ x12 | 22 | 12.15 |
| 6 x6 | 10 | 1½ x14 | 40 | 20.70 |

4x4 in. and Smaller, One Dozen Pairs; Larger Sizes One-quarter Dozen Pairs, Except 6x6 in. which is Packed One-twelfth Dozen Pairs in a Box, without Screws.

No. 291—Wrought Steel, Planished

Screw holes and size of screws used and construction same as No. 808 above.

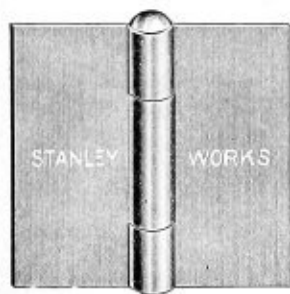
Per Dozen Pairs.

| Size Inches | Weight Per Dozen Pairs, Lbs. | A F C | SF4 Sand Finish | G Bower Barff Brass Screws | No. 1319 Galvan-ized Brass Pins | No. 747J Japanned |
|-------------|------------------------------|---------|-----------------|----------------------------|---------------------------------|-------------------|
| 2 x2 | 3.68 | \$ 5.85 | \$ 6.80 | \$12.10 | \$ 5.95 | \$ 4.40 |
| 2½ x2½ | 6.04 | 6.25 | 7.20 | 12.45 | 6.90 | 4.95 |
| 3 x3 | 8.87 | 6.90 | 7.85 | 13.10 | 8.45 | 5.45 |
| 3½ x3½ | 13.1 | 7.80 | 9.00 | 18.70 | 11.90 | 6.75 |
| 4 x4 | 17.6 | 10.40 | 11.60 | 21.30 | 15.70 | 8.80 |
| 4½ x4½ | 24.2 | ..... | ..... | ..... | 19.35 | 12.05 |
| 5 x5 | 34. | ..... | ..... | ..... | 29.20 | 20.10 |

4x4 in. and Smaller, One-half Dozen Pairs; Larger Sizes, One-quarter Dozen Pairs in a Box, with Screws.

FAST JOINT BUTTS

EXTRA HEAVY



No. 850—Wrought Steel, Bright

Designed especially for Iron Shutters, Gates and Jail Work.

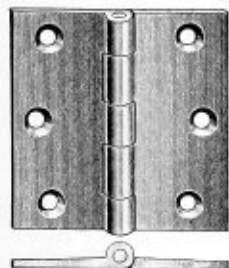
Holes may be drilled to meet the requirements on work of a special nature.

Per Dozen Pairs

| Size, Inches | Weight Per Dozen Pair, Lbs. | Dozen Pairs in a Case | Average Weight Case, Lbs. | Bright Steel, No Screws |
|---------------|-----------------------------|-----------------------|---------------------------|-------------------------|
| 2 1/2 x 2 1/2 | 7 1/2 | 10 | 78 | \$ 5.60 |
| 3 x 3 | 10 1/2 | 10 | 108 | 7.45 |
| 3 1/2 x 3 1/2 | 16 | 10 | 160 | 11.20 |
| 4 x 4 | 24 | 5 | 120 | 14.90 |
| 4 1/2 x 4 1/2 | 31 | 5 | 155 | 18.60 |
| 5 x 5 | 36 | 5 | 180 | 28.00 |
| 6 x 6 | 55 | 3 | 165 | 38.50 |

One-half Dozen Pairs in a Box, without Screws.

CORBIN, CAST BRASS



No. 100—Cast Brass, Unpolished, Brass Pin

Per Pair

| Size, Inches | No. of Screw Holes | Size of Screws, Nos. | Weight Dozen Pairs, Lbs. | Natural |
|---------------|--------------------|----------------------|--------------------------|---------|
| 2 x 1 1/2 | 6 | 6 | 3 | \$0.80 |
| 2 x 2 | 6 | 6 | 3 1/2 | .95 |
| 2 1/2 x 2 | 6 | 8 | 3 3/4 | 1.20 |
| 2 1/2 x 2 1/2 | 6 | 8 | 6 | 1.35 |
| 3 x 2 | 6 | 9 | 5 3/4 | 1.75 |
| 3 x 2 1/2 | 6 | 9 | 7 1/2 | 1.85 |
| 3 x 3 | 6 | 9 | 9 1/2 | 2.00 |
| 3 1/2 x 3 1/2 | 8 | 9 | 15 1/4 | 2.55 |

2 1/2 x 2 1/2 in. and Smaller, One Dozen Pairs; Larger Sizes One-half Dozen Pairs in a Box, without Screws.

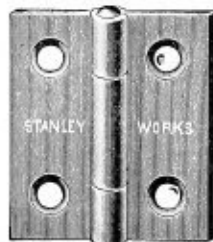
No. 101 1/2—Cast Bronze, Polished, Brass Pin Per Pair

| Size, Inches | No. of Screw Holes | Size of Screws, Nos. | Weight Dozen Pairs, Lbs. | B R EA A | SKA Sand Finish E Nickel |
|---------------|--------------------|----------------------|--------------------------|----------|--------------------------|
| 2 x 1 1/2 | 6 | 6 | 3 | \$1.35 | \$1.45 |
| 2 x 2 | 6 | 6 | 3 1/8 | 1.45 | 1.60 |
| 2 1/2 x 2 | 6 | 8 | 3 3/8 | 1.85 | 2.05 |
| 2 1/2 x 2 1/2 | 6 | 8 | 6 | 2.00 | 2.20 |
| 3 x 2 | 6 | 9 | 5 3/4 | 2.65 | 2.95 |
| 3 x 2 1/2 | 6 | 9 | 7 1/2 | 2.80 | 3.05 |
| 3 x 3 | 6 | 9 | 9 1/2 | 2.95 | 3.20 |
| 3 1/2 x 3 1/2 | 8 | 9 | 15 1/4 | 3.35 | 3.60 |

3 x 2 1/2 in. and Smaller, One Dozen Pairs, Larger Sizes One-half Dozen Pairs in a Box, with Screws.

NARROW BUTTS

STANLEY, TIGHT PIN



No. 800—Wrought Steel, Bright

2 1/2 in. and Larger Have Five Knuckles; Smaller Sizes Three.

Per Dozen Pairs

| Size Length, Inches | Width, Open, Inches | No. of Screw Holes | Size of Screws | Wt. Dozen Pair, Lbs. | Dozen Pair in Case | Wt. Case, Lbs. | Bright without Screws |
|---------------------|---------------------|--------------------|----------------|----------------------|--------------------|----------------|-----------------------|
| 1 | 1 1/8 | 4 | 5/8 x 5 | 3/8 | 100 | 62 | \$0.65 |
| 1 1/4 | 1 1/8 | 4 | 5/8 x 6 | 1 | 100 | 97 | .80 |
| 1 1/2 | 1 1/8 | 4 | 5/8 x 6 | 1 1/4 | 100 | 124 | 1.05 |
| 2 | 1 1/8 | 4 | 5/8 x 7 | 2 | 50 | 105 | 1.50 |
| 2 1/4 | 1 1/8 | 6 | 5/8 x 7 | 3 | 50 | 155 | 1.75 |
| 3 | 2 1/8 | 6 | 1 x 8 | 4 1/2 | 25 | 111 | 2.50 |
| 3 1/2 | 2 1/8 | 6 | 1 x 9 | 7 | 25 | 175 | 4.00 |
| 4 | 2 1/8 | 8 | 1 x 9 | 10 | 15 | 143 | 5.25 |
| 4 1/2 | 3 | 8 | 1 1/4 x 10 | 12 | 10 | 120 | 7.25 |
| 5 | 3 1/8 | 8 | 1 1/4 x 11 | 15 | 10 | 153 | 9.50 |
| 6 | 4 | 8 | 1 1/2 x 12 | 23 | 5 | 117 | 15.00 |

3 in. and Smaller, One Dozen Pairs; 3 1/2 to 4 1/2 in., One-half Dozen Pairs; Larger Sizes One-quarter Dozen Pairs in a Box.

STANLEY LIGHT, TIGHT PIN



No. 838—Wrought Steel, Bright

2 1/2 in. and Larger Have Five Knuckles; Small Sizes Three.

Per Dozen Pairs

| Size Length, Inches | Width, Open, Inches | No. of Screw Holes | Size of Screws | Wt. Dozen Pair, Lbs. | Dozen Pair in Case | Wt. Case, Lbs. | Bright without Screws |
|---------------------|---------------------|--------------------|----------------|----------------------|--------------------|----------------|-----------------------|
| 1 | 1 | 4 | 1/2 x 3 | 1/2 | 200 | 96 | \$0.65 |
| 1 1/4 | 1 1/8 | 4 | 5/8 x 4 | 3/8 | 100 | 64 | .80 |
| 1 1/2 | 1 1/8 | 4 | 5/8 x 5 | 1 | 100 | 92 | 1.05 |
| 1 3/4 | 1 1/8 | 4 | 5/8 x 5 | 1 1/2 | 100 | 123 | 1.40 |
| 2 | 1 1/8 | 4 | 5/8 x 6 | 1 1/2 | 50 | 90 | 1.50 |
| 2 1/4 | 1 1/8 | 6 | 5/8 x 6 | 2 | 50 | 101 | 1.70 |
| 2 1/2 | 1 1/8 | 6 | 5/8 x 6 | 2 1/2 | 50 | 119 | 1.75 |
| 2 3/4 | 1 1/8 | 6 | 5/8 x 7 | 3 1/4 | 50 | 163 | 2.20 |
| 3 | 2 | 6 | 5/8 x 7 | 4 | 25 | 98 | 2.50 |

One Dozen Pairs in a Box.

No. 284—Wrought Steel, Planished

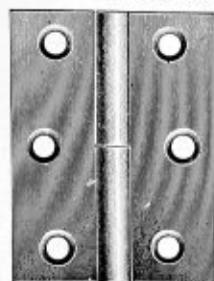
2 1/2 in. and Larger Have Five Knuckles, Smaller Sizes Three.

Per Dozen Pairs

| Size, Inches | Width, Open, Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | A D2 P C | SF4 Sand Finish |
|--------------|---------------------|--------------------|----------------|--------------------------|----------|-----------------|
| 1 1/2 | 1 1/8 | 4 | 5/8 x 5 | 1 | \$3.35 | \$3.95 |
| 2 | 1 1/8 | 4 | 5/8 x 6 | 2 | 3.80 | 4.40 |
| 2 1/4 | 1 1/8 | 6 | 5/8 x 6 | 2 1/2 | 4.20 | 4.80 |
| 2 1/2 | 1 1/8 | 6 | 5/8 x 6 | 2 7/10 | 4.55 | 5.15 |
| 3 | 2 | 6 | 5/8 x 7 | 4 | 5.35 | 5.95 |

One Dozen Pairs in a Box, with Screws

LOOSE JOINT BUTTS



STANLEY NARROW

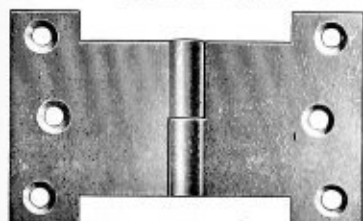
No. 802—Wrought Steel,
Bright

Per Dozen Pairs

| Size Length, Inches | Width Open, Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | Bright Without Screws |
|---------------------|--------------------|--------------------|----------------|--------------------------|-----------------------|
| 2 | 1 1/4 | 4 | 3/4 x 7 | 2 1/4 | \$2.20 |
| 2 1/2 | 1 3/8 | 6 | 7/8 x 7 | 3 | 2.70 |
| 3 | 2 1/8 | 6 | 1 x 8 | 4 1/2 | 3.55 |

One Dozen Pairs in a Box.

PARLIAMENT BUTTS



LOOSE JOINT

No. 830—Wrought
Steel, Bright

Per Dozen Pairs

| Size Width Open, In. | Length Joint, In. | Length Side, In. | Width Between Flanges, In. | No. of Screw Holes | Size Screws | Weight Dozen Pairs, Lbs. | Bright Steel Without Screws |
|----------------------|-------------------|------------------|----------------------------|--------------------|-------------|--------------------------|-----------------------------|
| 2 1/2 | 1 1/2 | 2 7/8 | 1 1/8 | 6 | 7/8 x 8 | 3 | \$ 3.20 |
| 3 | 1 1/2 | 2 7/8 | 1 1/8 | 6 | 7/8 x 8 | 4 | 3.60 |
| 3 1/2 | 1 3/4 | 2 7/8 | 2 | 6 | 7/8 x 9 | 5 | 3.90 |
| 4 | 1 3/4 | 2 7/8 | 2 1/8 | 6 | 1 x 9 | 6 | 4.30 |
| 4 1/2 | 1 3/4 | 2 7/8 | 2 1/8 | 6 | 1 x 9 | 7 1/2 | 5.30 |
| 5 | 1 3/4 | 2 7/8 | 3 3/8 | 6 | 1 x 9 | 8 1/2 | 6.00 |
| 5 1/2 | 1 3/4 | 2 7/8 | 3 3/8 | 6 | 1 1/4 x 10 | 9 1/2 | 6.90 |
| 6 | 2 | 2 7/8 | 4 7/8 | 6 | 1 1/4 x 10 | 12 1/2 | 7.40 |
| 8 | 2 1/2 | 3 3/8 | 5 3/4 | 6 | 1 1/4 x 11 | 20 3/4 | 12.20 |

5 in. and Smaller, One Dozen Pairs, 5 1/2 and 6 in., One-half Dozen Pairs; 8 in. One-quarter Dozen Pairs in a Box.

No. 832—Wrought Steel,
Bright

Per Dozen Pairs

| Size Width Open, In. | Length Joint, In. | Length Side, In. | Width Between Flanges, In. | No. of Screw Holes | Size Screws | Bright Steel Without Screws |
|----------------------|-------------------|------------------|----------------------------|--------------------|-------------|-----------------------------|
| 2 1/2 | 1 | 1 1/4 | 1 1/2 | 6 | 3/4 x 6 | \$2.50 |

One Dozen Pairs in a Box.

No. Z832—Wrought Steel, Sherardized
Per Dozen Pairs

| Size Width Open, Inches | Length Joint, Inches | Length Side, Inches | Width Between Flanges, Inches | No. of Screw Holes | Size Screws | Sherardized with Screws |
|-------------------------|----------------------|---------------------|-------------------------------|--------------------|-------------|-------------------------|
| 2 1/2 | 1 | 1 1/4 | 1 1/2 | 6 | 3/4 x 6 | \$4.00 |

One Dozen Pairs in a Box, with Screws.

WROUGHT BRASS BUTTS

NARROW

Wrought Brass, Steel Pin

Per Dozen Pairs

| Size Length, In. | Width Open, In. | No. of Screw Holes | Screw Nos. | Weight Per Box, Lbs. | Natural Bright Brass |
|------------------|-----------------|--------------------|------------|----------------------|----------------------|
| 1/2 | 1/2 | 4 | 0 | 2 | \$0.24 |
| 3/4 | 1/2 | 4 | 2 | 1 1/8 | .28 |
| 1 | 3/4 | 4 | 2 | 1 3/8 | .32 |
| 1 1/4 | 3/4 | 4 | 3 | 2 1/2 | .46 |
| 1 1/2 | 7/8 | 4 | 4 | 3 3/8 | .52 |
| 1 3/4 | 1 | 6 | 5 | 4 3/8 | .68 |
| 2 | 1 1/2 | 6 | 5 | 5 3/8 | .80 |
| 2 1/2 | 1 5/8 | 6 | 6 | 6 | 1.40 |
| 3 | 1 5/8 | 6 | 8 | 2 3/8 | 2.50 |

1/2 in. Twenty-four Dozen Pairs; 3/4 to 2 in. Six Dozen Pairs; 2 1/2 in. Three Dozen Pairs; 3 in. One Dozen Pairs in a Box.

MIDDLE

Wrought Brass, Steel Pin

Per Dozen Pairs

| Size Length, In. | Width Open, In. | No. of Screw Holes | Screw Nos. | Weight Per Box, Lbs. | Natural Bright Brass |
|------------------|-----------------|--------------------|------------|----------------------|----------------------|
| 1/2 | 3/4 | 4 | 0 | 2 1/8 | \$0.26 |
| 3/4 | 3/4 | 4 | 2 | 1 3/8 | .30 |
| 1 | 7/8 | 4 | 3 | 1 7/8 | .38 |
| 1 1/4 | 7/8 | 4 | 4 | 2 3/8 | .48 |
| 1 1/2 | 1 1/8 | 4 | 4 | 3 3/8 | .60 |
| 1 3/4 | 1 1/8 | 6 | 5 | 5 | .76 |
| 2 | 1 1/8 | 6 | 5 | 6 1/2 | .92 |
| 2 1/2 | 1 5/8 | 6 | 6 | 6 | 1.70 |
| 3 | 1 3/4 | 6 | 8 | 3 | 3.00 |

1/2 in., Twenty-four Dozen Pairs; 3/4 to 2 in., Six Dozen Pairs; 2 1/4 and 2 1/2 in., Three Dozen Pairs; 3 in., One Dozen Pairs in a Box.

BROAD

Wrought Brass, Steel Pin

Per Dozen Pairs

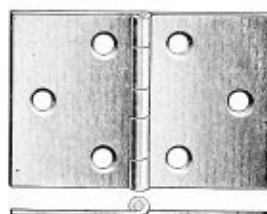
| Size Length, In. | Width Open, In. | No. of Screw Holes | Screw Nos. | Weight Per Box, Lbs. | Natural Bright Brass |
|------------------|-----------------|--------------------|------------|----------------------|----------------------|
| 1/2 | 5/8 | 4 | 0 | 2 1/4 | \$0.28 |
| 3/4 | 7/8 | 4 | 3 | 1 3/8 | .32 |
| 1 | 1 | 4 | 3 | 2 1/4 | .40 |
| 1 1/4 | 1 1/8 | 4 | 4 | 3 3/8 | .54 |
| 1 1/2 | 1 1/4 | 4 | 4 | 4 3/8 | .68 |
| 1 3/4 | 1 1/8 | 6 | 5 | 5 3/8 | .84 |
| 2 | 1 3/8 | 6 | 5 | 7 1/2 | 1.04 |
| 2 1/2 | 1 3/4 | 6 | 6 | 6 3/4 | 2.00 |
| 3 | 2 | 6 | 8 | 3 1/2 | 3.50 |

1/2 in., Twenty-four Dozen Pairs; 3/4 to 2 in., Six Dozen Pairs; 2 1/4 and 2 1/2 in., Three Dozen Pairs; 3 in., One Dozen Pairs in a Box.

ESTIMATES—We are prepared to furnish estimates for Hardware according to specifications and plans. Send us your specifications for estimates.

WROUGHT BRASS BUTTS

DESK



Wrought Brass, Steel Pin

Per Dozen Pairs.

| Size Length, Inches | Width Open, Inches | No. of Screw Holes | Screw Nos. | Weight Per Box, Lbs. | Natural Bright Brass |
|---------------------|--------------------|--------------------|------------|----------------------|----------------------|
| 1 | 1 1/8 | 6 | 4 | 3 3/4 | \$0.60 |
| 1 1/4 | 1 3/8 | 6 | 4 | 5 1/2 | .84 |
| 1 1/2 | 2 | 6 | 5 | 8 | 1.20 |
| 1 3/4 | 2 1/8 | 6 | 6 | 13 3/4 | 2.00 |
| 2 | 2 1/2 | 6 | 7 | 9 1/2 | 2.80 |

1 to 1 1/4 in., Six Dozen Pairs; 2 in., Three Dozen Pairs in a Box.

BACK FLAP HINGES

BENT LOOSE PIN



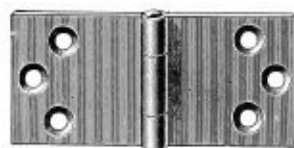
No. 813—Wrought Steel, Bright

Per Dozen Pairs.

| Size Length, Inches | Width Open, Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | Bright Steel |
|---------------------|--------------------|--------------------|----------------|--------------------------|--------------|
| 1 1/2 | 3 1/8 | 6 | 3/4 x 8 | 3 | \$2.25 |
| 1 3/4 | 4 | 6 | 3/4 x 8 | 3 3/8 | 2.75 |
| 2 | 4 3/8 | 6 | 3/4 x 8 | 5 | 3.25 |

2 in. One-quarter Dozen Pairs; Smaller Sizes, One Dozen Pairs in a Box.

PEW DOOR HINGES



No. 818—Wrought Steel, Bright

Per Dozen Pairs.

| Size Length, Joint, Inches | Width Open, Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | Bright Steel |
|----------------------------|--------------------|--------------------|----------------|--------------------------|--------------|
| 1 1/2 | 3 1/2 | 6 | 3/4 x 8 | 2 3/8 | \$2.60 |
| 2 | 4 3/8 | 6 | 1 x 9 | 5 | 3.75 |

1 1/2 in., One Dozen Pairs; 2 in., One-half Dozen Pairs in a Box.

INSIDE BLIND BUTTS



No. 843—Wrought Steel, Bright

Light with Beveled Edges, Ends of Pin Finished.

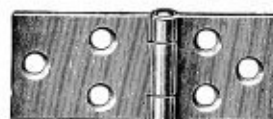
Per Dozen Pairs.

| Size Length, Inches | Width Open, Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | Bright Steel |
|---------------------|--------------------|--------------------|----------------|--------------------------|--------------|
| 1 1/8 | 1 3/4 | 6 | 5/8 x 5 | 4 1/2 | \$1.65 |
| 1 1/4 | 1 7/8 | 6 | 5/8 x 5 | 1 | 1.75 |
| 1 1/2 | 2 1/8 | 6 | 5/8 x 5 | 1 1/2 | 2.50 |

One Dozen Pairs in a Box.

TABLE HINGES

FLUSH RIVET



No. 810—Wrought Steel, Bright.

Per Dozen Pairs.

| Size Length, Inches | Width Open, Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | Bright Steel |
|---------------------|--------------------|--------------------|----------------|--------------------------|--------------|
| 1 1/8 | 2 3/8 | 6 | 3/4 x 7 | 1 3/8 | \$1.55 |
| 1 1/4 | 2 7/8 | 6 | 3/4 x 7 | 2 | 1.80 |
| 1 1/2 | 3 1/8 | 6 | 3/4 x 8 | 2 3/10 | 2.00 |
| 1 3/4 | 3 1/2 | 6 | 1 x 9 | 3 | 2.70 |
| 2 | 3 3/8 | 6 | 1 x 9 | 4 | 3.35 |

One Dozen Pairs in a Box.

CHEST HINGES



No. 820—Wrought Steel, Bright

Per Dozen Pairs.

| Size Length, Joint, Inches | Offset, Inches | No. of Screw Holes | Size of Screws | Weight Dozen Pairs, Lbs. | Bright Steel |
|----------------------------|----------------|--------------------|----------------|--------------------------|--------------|
| 1 1/2 | 7/8 | 8 | 3/4 x 7 | 3 | \$2.95 |
| 2 | 7/8 | 8 | 3/4 x 8 | 5 1/2 | 4.40 |

One Dozen Pairs in a Box.

REFRIGERATOR HINGES



Wrought Steel, Planished
No. 1420A—Planished Bronze

| | | |
|---|---------------|---------------|
| Size, Inches | 1 3/4 x 1 3/4 | 2 1/2 x 2 1/2 |
| Weight Per Dozen Pairs, Lbs. | 1 3/4 | 3 3/4 |
| Per Dozen Pairs | \$4.00 | 4.50 |
| One-half Dozen Pairs in a Box, with Screws. | | |



Cast Brass
1 7/8 x 3 1/4 in., 3/8 in. Offset.

| | | |
|--------------------------------------|-----------------|--------|
| No. 1182 —Polished Brass | Per Dozen Pairs | \$8.00 |
| No. 1182N—Nickel Plated, Polished | Per Dozen Pairs | 9.00 |
| Weight Per Dozen Pairs 4 3/4 Pounds. | | |
| One Dozen Pairs in a Box. | | |



Cast Brass, Polished

| | | | |
|----------------------|---------|-------|--------|
| Nos. | 193 | 194 | 195 |
| Length, Inches | 5 | 5 3/4 | 6 1/4 |
| Dozen Pairs in a Box | 1 | 1 | 1 |
| Weight Per Box, Lbs. | 4 3/4 | 6 3/4 | 8 1/8 |
| Per Dozen Pairs | \$6.50 | 8.00 | 10.40 |
| Nos. | 196 | 197 | 198 |
| Length, Inches | 7 1/2 | 8 1/2 | 11 1/4 |
| Dozen Pairs in a Box | 1 1/2 | 1 1/2 | 1 1/2 |
| Weight Per Box, Lbs. | 5 1/4 | 7 | 12 1/2 |
| Per Dozen Pairs | \$13.40 | 16.60 | 27.00 |



Cast Brass
Length 5 in., 3/8 in. Offset.

| | | |
|--------------------------------------|-----------------|---------|
| No. 1093 —Polished Brass | Per Dozen Pairs | \$12.10 |
| No. 1093N—Nickel Plated, Polished | Per Dozen Pairs | 13.50 |
| Weight Per Dozen Pairs 5 1/2 Pounds. | | |
| One-half Dozen Pairs in a Box. | | |

REFRIGERATOR HINGES



Wrought Brass

1 1/2 x 5 in.

| | | |
|---|-----------------|---------|
| No. 1404—Polished Brass | Per Dozen Pairs | \$14.40 |
| Weight Per Dozen Pairs 6 Pounds. | | |
| One-half Dozen Pairs in a Box, with Screws. | | |



Wrought Brass

1 3/4 x 4 3/4 in., 3/8 in. Offset.

| | | |
|---|-----------------|---------|
| No. 1408—Polished Brass | Per Dozen Pairs | \$14.65 |
| Weight Per Dozen Pairs 6 Pounds. | | |
| One-half Dozen Pairs in a Box, with Screws. | | |



Wrought Brass

1 3/4 x 5 7/8 in.

| | | |
|---|-----------------|---------|
| No. 1412—Polished Brass | Per Dozen Pairs | \$15.15 |
| Weight Per Dozen Pairs 6 1/4 Pounds. | | |
| One-half Dozen Pairs in a Box, with Screws. | | |

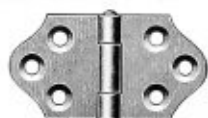


Wrought Brass

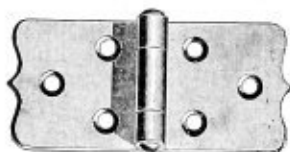
1 3/4 x 4 3/8 in.

| | | |
|---|-----------------|---------|
| No. 1416—Polished Brass | Per Dozen Pairs | \$14.40 |
| Weight Per Dozen Pairs 6 Pounds. | | |
| One-half Dozen Pairs in a Box, with Screws. | | |

WASH-TRAY HINGES



Style of 1 1/2 and 1 3/4 in.



Style of 2 in.

Wrought Steel

No. 1312—Galvanized Brass Pins

| | | | |
|---------------------|--------|-------|-------|
| Size, Inches..... | 1 1/2 | 1 3/4 | 2 |
| Width Open, In.... | 2 3/4 | 3 1/4 | 4 1/4 |
| Size Screw, Nos.... | 6 | 8 | 8 |
| Wt. Doz. Prs., Lbs. | 2 3/4 | 3 1/4 | 6 1/2 |
| Per Dozen Pairs... | \$6.65 | 7.95 | 9.50 |

One Dozen Pairs in a Box, with Screws.

STRAP HINGES

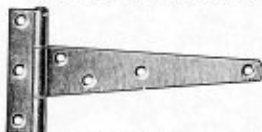


No. 1850—Wrought Brass, Polished

| | | | |
|------------------------------|---------|-------|-------|
| L'th Ea. Leaf, In. | 3 | 4 | 5 |
| Width Strap at Joint, In.... | 1 1/4 | 1 3/4 | 1 3/4 |
| Screw Holes.... | 6 | 6 | 8 |
| Size Screw, Nos. | 6 | 7 | 8 |
| Wt. Dz. Prs., Lbs. | 3 1/2 | 5 | 7 1/2 |
| Per Dozen Pairs... | \$17.35 | 25.05 | 30.75 |

One Pair in a Box, with Screws.

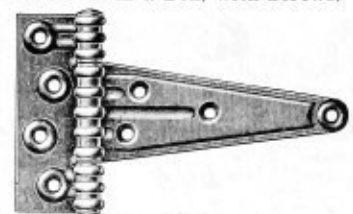
TEE HINGES



No. 1854—Wrought Brass, Polished

| | | | |
|------------------------------|---------|-------|-------|
| Length Strap, In. | 3 | 4 | 5 |
| Width Strap at Joint, In.... | 1 1/4 | 1 3/4 | 1 3/4 |
| Length Joint, In. | 2 3/4 | 2 3/4 | 3 |
| Screw Holes.... | 6 | 6 | 8 |
| Size Screws, Nos. | 7 | 7 | 8 |
| Wt. Dz. Prs., Lbs. | 3 3/4 | 4 1/4 | 6 1/2 |
| Per Dozen Pairs... | \$19.20 | 25.40 | 33.75 |

One Pair in a Box, with Screws.



No. 1437—Wrought Brass, Corrugated

| | |
|-------------------------------|---------|
| Length Strap, Inches..... | 6 |
| Width Strap at Joint, Inches. | 2 1/4 |
| Length Joint, Inches..... | 4 1/4 |
| Screw Holes..... | 8 |
| Size Screws, Nos..... | 11 |
| Weight Dozen Pairs, Lbs.... | 22 |
| Per Dozen Pairs..... | \$60.45 |

One Pair in a Box, with Screws.

ORNAMENTAL HINGES

LOTUS PATTERN, FULL SURFACE



Wrought Steel

Length Joint 1 1/2 in., Width Open 2 1/2 in. Per Dozen Pairs
No. 1478-D2—Antique Copper..\$4.00
No. 1478-F—Dull Brass..... 4.00
Weight Per Dozen Pairs 2 Pounds.
One Dozen Pairs in a Box, with Screws.

LOTUS PATTERN, HALF SURFACE



Wrought Steel, Loose Pin

Length Joint 1 1/2 in., Width Open 1 1/2 in. Per Dozen Pairs
No. 1479-D2—Antique Copper..\$4.00
No. 1479-F—Dull Brass..... 4.00
Weight Per Dozen Pairs 1 3/4 Pounds.
One Dozen Pairs in a Box, with Screws.

BUTTERFLY PATTERN



Wrought Steel

Length Joint 1 1/4 in., Width Open 3 in. Per Dozen Pairs
No. 1431-D2—Antique Copper..\$4.00
No. 1431-F—Dull Brass..... 4.00

Wrought Brass

Length Joint 1 1/4 in., Width Open 3 in. Per Dozen Pairs
No. 1430—Polished\$8.40
Weight Per Dozen Pairs 1 3/4 Pounds.
One Dozen Pairs in a Box, with Screws.

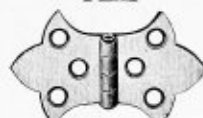
KITCHEN CABINET



Wrought Steel, Reversed Pad, with 3/8 in. Offset

Length Joint 1 1/4 in., Leaf 2 3/8 in. Wide, Pad 1/2 in. Wide. Per Dozen Pairs
No. 1497-C7—Brass Plated....\$3.50
No. 1497-N7—Nickel Plated... 3.50
Weight Per Dozen Pairs 1 1/2 Pounds.
Open Stock.

ORNAMENTAL HINGES FLAP



Wrought Brass

Length Joint 3/4 in., Width Open 2 1/4 in.

Per Dozen Pairs

No. 02115 1/4—Polished and Lacquered\$1.50

No. 02115 1/2—Nickel Plated, Polished 1.60

Weight Per Dozen Pairs 3/4 Pound.
Length Joint 1 in., Width Open 3 in.

Per Dozen Pairs

No. 02116 1/4—Polished and Lacquered\$1.75

No. 02116 1/2—Nickel Plated, Polished 2.25

Weight Per Dozen Pairs 1 1/2 Pounds.
Three Dozen Pairs in a Box.

BOX



Wrought Brass

Length Joint 1/2 in., Width Open 1 1/4 in. Per Dozen Pairs

No. 02110—Dipped and Lacquered\$0.60

Weight Per Dozen Pairs 1/4 Pound.
Three Dozen Pairs in a Box.



Wrought Brass

Length Joint 3/8 in., Width Open 1 in. Per Dozen Pairs

No. 02107—Dipped and Lacquered\$0.75

Weight Per Dozen Pairs 3/8 Pound.
Three Dozen Pairs in a Box.



Wrought Brass

Length Joint 5/8 in., Width Open 1 1/2 in. Per Dozen Pairs

No. 02111—Dipped and Lacquered\$0.75

Weight Per Dozen Pairs 3/4 Pound.
Three Dozen Pairs in a Box.



Wrought Brass

Length Joint 5/8 in., Width Open 1 1/4 in.

Per Dozen Pairs

No. 02108—Dipped and Lacquered\$1.10

Weight Per Dozen Pairs 3/8 Pound.
Three Dozen Pairs in a Box.



Wrought Brass

Length Joint 1 in., Width Open 2 5/8 in. Per Dozen Pairs

No. 02112—Dipped and Lacquered\$1.15

Weight Per Dozen Pairs 3/4 Pound.
Three Dozen Pairs in a Box.

ORNAMENTAL HINGES



Wrought Brass
Size $1\frac{1}{4} \times 1\frac{1}{4}$ in.

No. 02114—Dipped and Lacquered.....**\$1.15**
Per Dozen Pairs
Weight Per Dozen Pairs $\frac{5}{8}$ Pound.
Three Dozen Pairs in a Box.



Wrought Brass

Length 3 in., Width at Joint 1 in.

No. 02113—Dipped and Lacquered.....**\$1.35**
Per Dozen Pairs
Weight Per Dozen Pairs $\frac{7}{8}$ Pound.
Three Dozen Pairs in a Box.



Wrought Brass

Length $3\frac{1}{4}$ in., Width at Joint $\frac{1}{2}$ in.

No. 02121—Dipped and Lacquered.....**\$1.90**
Per Dozen Pairs
Weight Per Dozen Pairs $\frac{3}{4}$ Pound.
One and One-half Dozen Pairs in a Box.



Wrought Brass

Polished and Lacquered.

| | | |
|-------------------------------|---------------------|---------------------|
| Nos. | 02122 $\frac{1}{4}$ | 02120 $\frac{1}{4}$ |
| Length, Inches | $2\frac{1}{8}$ | $3\frac{1}{2}$ |
| Width at Joint, Inches..... | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Weight Per Dozen Pairs, Lbs.. | $\frac{3}{4}$ | 1 |
| Per Dozen Pairs..... | \$1.80 | 2.50 |

No. 02122 $\frac{1}{4}$ has 3 screw holes in each leaf.
One and One-half Dozen Pairs in a Box.



Wrought Brass

Length $2\frac{3}{4}$ in., Width at Joint $\frac{3}{4}$ in.

No. 02119—Dipped and Lacquered.....**\$1.80**
Per Dozen Pairs
Weight Per Dozen Pairs $\frac{7}{8}$ Pound.
One and One-half Dozen Pairs in a Box.

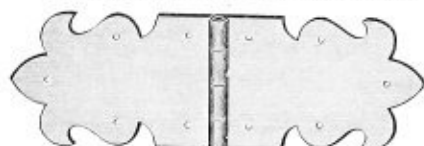


Wrought Brass

Length $4\frac{1}{8}$ in., Width at Joint $1\frac{1}{8}$ in.

No. 02151 $\frac{1}{4}$ —Polished and Lacquered.....**\$1.50**
Per Dozen Pairs
Weight Per Dozen Pairs $2\frac{1}{2}$ Pounds.
One Dozen Pairs in a Box.

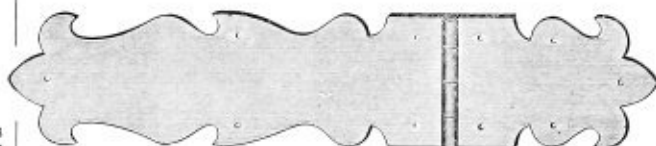
ORNAMENTAL HINGES



Wrought Brass

Length $4\frac{7}{8}$ in., Width at Joint $1\frac{1}{2}$ in.

No. 02100 $\frac{1}{4}$ —Polished and Lacquered.....**\$3.75**
Per Dozen Pairs
Weight Per Dozen Pairs $1\frac{1}{2}$ Pounds.
One and One-half Dozen Pairs in a Box.



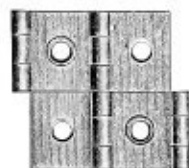
Wrought Brass

Length $7\frac{1}{2}$ in., Width at Joint $1\frac{1}{2}$ in.

No. 02102 $\frac{1}{4}$ —Polished and Lacquered.....**\$5.00**
Per Dozen Pairs
Weight Per Dozen Pairs $2\frac{1}{2}$ Pounds.
One and One-half Dozen Pairs in a Box.

SCREEN HINGES

DOUBLE ACTING



No. 105.

No. 105—Wrought Brass, Polished

| | | |
|---------------------------|------------------------------------|------------------------------------|
| Size, Inches..... | $1\frac{3}{4} \times 1\frac{1}{8}$ | $1\frac{3}{4} \times 1\frac{1}{8}$ |
| For Screens, Inches | $\frac{3}{4}$ | 1 |
| Wt. Doz. Pairs, Lbs..... | $2\frac{1}{2}$ | 3 |
| Per Dozen Pairs... | \$11.20 | 12.00 |

| | |
|---------------------------|-------------------------|
| Size, Inches | $2 \times 1\frac{1}{8}$ |
| For Screens, Inches..... | $1\frac{1}{8}$ |
| Wt. Dozen Pairs, Lbs..... | $4\frac{3}{4}$ |
| Per Dozen Pairs..... | \$13.60 |

Wrought Steel

No. 875-C—Brass Plated

| | | |
|---------------------------------|----------------|----------------|
| Length Joint, Inches..... | $1\frac{3}{4}$ | 2 |
| Width Closed, Inches..... | $\frac{3}{4}$ | $1\frac{1}{4}$ |
| Weight Per Dozen Pairs, Lbs.... | 2 | $3\frac{3}{4}$ |
| Per Dozen Pairs..... | \$5.10 | 7.50 |

One Dozen Pairs in a Box, with Screws.

TOILET HINGES

Wrought Brass

Length 3 in., Width at Joint $1\frac{1}{2}$ in.

No. 02123 — Dipped and
Lacquered**\$2.00**
Weight Dozen Pairs $1\frac{3}{8}$ Pounds.
One Dozen Pairs in a Box.



CONTINUOUS OR PIANO HINGES



Wrought Brass

Width $1\frac{1}{8}$ in., Lengths up to 5 ft.

| | |
|--------------------------------|---------------|
| No. B490 —Natural Finish | Per Foot |
| No. B490N—Nickel Plated | \$0.60 |
| | .60 |

INVISIBLE HINGES

SOSS

Composition Metal, Frictionless Metal Working Parts,
Roller BearingsCan be seen only when the door upon which they are
applied is open. No projecting metal on either side of door.Applied to the same part of jamb and door as the ordi-
nary butts and require no special arrangement. Work
smoothly and easily, require no oiling.

Dull Brass

| | | |
|---|--------|-------|
| Nos. | 101 | 104 |
| Length Plates, Inches.. | 1 1/8 | 2 3/8 |
| Width Plates, Inches.. | 3/8 | 1/2 |
| Depth Mortise, Inches.. | 1 1/8 | 3/4 |
| Min. Thick. Wood, In.. | 1 1/8 | 3/4 |
| Clearance Betw. Plates, Inches | 1/4 | 3/8 |
| Pairs in a Box..... | 12 | 6 |
| Wt. Per Box, Lbs..... | 2 | 2 1/4 |
| Per Pair | \$0.40 | .75 |

| | | | |
|---------------------------------|--------|-------|-------|
| Nos. | 108 | 112 | 116 |
| Length Plates, Inches..... | 2 3/4 | 3 1/2 | 4 3/8 |
| Width Plates, Inches..... | 5/8 | 3/4 | 1 |
| Depth Mortise, Inches..... | 3/4 | 1 1/8 | 1 1/2 |
| Minimum Thick. Wood, Inches. | 1 | 1 1/8 | 1 3/8 |
| Clearance Betw. Plates, Inches. | 1/2 | 3/8 | 1/2 |
| Pairs in a Box..... | 2 | 1 | 1 |
| Weight Per Box, Lbs..... | 1 1/4 | 1 1/4 | 2 3/4 |
| Per Pair | \$1.10 | 1.90 | 2.60 |

All Above, Packed with Screws.

SUPPORT OR STOP HINGES

No. 1127 1/2—Cast Brass, Polished
Stops at 180°.

| | | |
|----------------------------------|--------|-------|
| Length Closed, Inches..... | 3 | 4 |
| Weight Per Dozen Pairs, Lbs..... | 3 1/4 | 5 3/4 |
| Per Pair | \$2.65 | 3.00 |

One Dozen Pairs in a Box, with Screws.

No. 1127—Cast Brass, Polished
Stops at 105°.

| | | |
|----------------------------------|--------|-------|
| Length Closed, Inches..... | 3 | 4 |
| Weight Per Dozen Pairs, Lbs..... | 2 3/4 | 5 1/2 |
| Per Pair | \$2.65 | 3.00 |

One Dozen Pairs in a Box, with Screws.

PIN HINGES

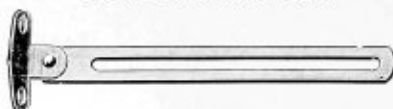


No. 3—Cast Brass

| | | | | |
|---------------------------|--------|-------|-------|-------|
| Length Closed, Inches.... | 2 | 2 1/4 | 3 | 3 1/4 |
| Weight Dozen Pairs, Lbs.. | 1 1/4 | 1 1/2 | 1 3/4 | 3 |
| Per Dozen Pair..... | \$7.80 | 9.60 | 11.40 | 12.60 |

Two Dozen Pairs in a Box.

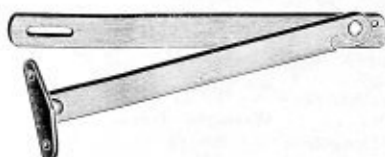
STAY HINGES



Wrought Steel, Brass Plated

| | | | | |
|------------------------------|--------|-------|------|-------|
| Nos. | 1721 | 1723 | 1734 | 1735 |
| Length, Inches | 4 1/4 | 7 1/2 | 10 | 12 |
| Weight Per Dozen Pairs, Lbs. | 3 1/4 | 2 3/4 | 3 | 3 3/4 |
| Per Dozen Pairs..... | \$1.40 | 2.50 | 3.50 | 3.75 |

One Dozen Pairs in a Box.

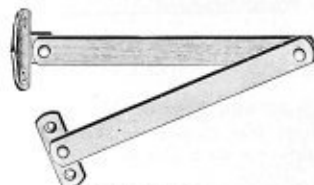


Wrought Brass

No. 01751—4x4 3/8 in., Dipped and Lacquered.....\$3.75
Per Dozen Pairs

Weight Per Dozen Pairs 1 1/2 Pounds.

One Dozen Pairs in a Box.

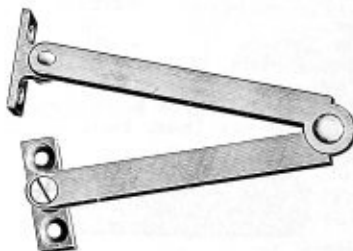


Wrought Brass

No. 01756—4 1/4 x 4 1/4 in., Dipped and Lacquered....\$3.90
Per Dozen Pairs

Weight Per Dozen Pairs 1 1/4 Pounds.

One Dozen Pairs in a Box.



Wrought Bronze

No. 1750—3 3/8 x 4 in., Polished.....\$18.00
Per Dozen Pairs

Weight Per Dozen Pairs 4 1/4 Pounds.

One Dozen Pairs in a Box, with Screws.



No. 8998—Cast Brass, Polished and Lacquered

| | | |
|---------------------------------|---------|-------|
| Length Open, Inches..... | 10 | 18 |
| Weight Per Dozen Pairs, Lbs.... | 7 | 13 |
| Per Dozen Pairs..... | \$21.60 | 35.04 |

10 in., One Dozen Pairs; 18 in., One-half Dozen Pairs
in a Box.

HINGE HASPS



Wrought Brass

Length $1\frac{3}{4}$ in., Width at Joint $\frac{5}{8}$ in.
Per Dozen

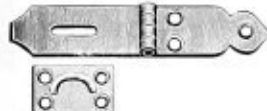
No. 03000 $\frac{1}{4}$ —Polished and Lac-
quered \$0.90
Weight Per Dozen $2\frac{1}{2}$ Ounces.
Three Dozen in a Box.



Wrought Brass

Length $2\frac{3}{4}$ in., Width at Joint $\frac{5}{8}$ in.
Per Dozen

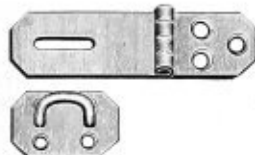
No. 03001 $\frac{1}{4}$ —Polished and Lac-
quered \$1.25
Weight Per Dozen 3 Ounces.
Three Dozen in a Box.



Wrought Brass

Length 3 in., Width at Joint $\frac{1}{2}$ in.
Per Dozen

No. 03002 $\frac{1}{4}$ —Polished and Lac-
quered \$1.10
Weight Per Dozen 7 Ounces.
Three Dozen in a Box.



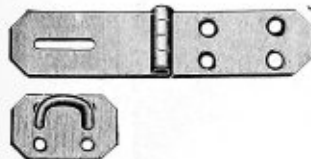
Wrought Brass

Polished and Lacquered.

| | | |
|--------------------|---------------------|---------------------|
| Nos. | 03004 $\frac{1}{4}$ | 03005 $\frac{1}{4}$ |
| Length, Inches... | $2\frac{3}{4}$ | $3\frac{3}{4}$ |
| Width Joint, In... | $\frac{3}{4}$ | $\frac{3}{4}$ |
| Wt. Per Dozen, Oz. | 3 | 12 |
| Per Dozen | \$1.15 | 1.80 |

| | |
|------------------------|---------------------|
| No. | 03011 $\frac{1}{4}$ |
| Length, Inches... | $3\frac{3}{4}$ |
| Width Joint, Inches... | 1 |
| Wt. Per Dozen, Oz. | 16 |
| Per Dozen | \$2.75 |

Three Dozen in a Box.



Wrought Brass

Length $3\frac{1}{2}$ in., Width at Joint $\frac{3}{4}$ in.
Per Dozen

No. 03006 $\frac{1}{4}$ —Polished and Lac-
quered \$1.80
Weight Per Dozen 12 Ounces.
Three Dozen in a Box.

HINGE HASPS



Wrought Brass

Length $2\frac{1}{2}$ in., Width at Joint 1 in.

Per Dozen
No. 03003 $\frac{1}{4}$ —Polished and Lac-
quered \$1.65
Weight Per Dozen 10 Ounces.
Three Dozen in a Box.



Cast Brass

Polished and Lacquered.

| | | |
|---------------------|---------------------|---------------------|
| Nos. | 03300 $\frac{1}{4}$ | 03301 $\frac{1}{4}$ |
| Length, Inches... | $3\frac{1}{2}$ | 5 |
| Width at Joint, In. | 1 | $1\frac{1}{2}$ |
| Wt. Per Dozen, Lbs. | $1\frac{3}{4}$ | $5\frac{3}{4}$ |
| Per Dozen | \$6.00 | 18.00 |

One Dozen in a Box.



Cast Brass

Length Strap $2\frac{3}{4}$ in., Length Pad $1\frac{1}{4}$
in., Width at Joint $\frac{3}{4}$ in.

Per Dozen
No. 03306 $\frac{1}{4}$ —Polished and Lac-
quered \$6.00

When locked screws are concealed
and protected.

Weight Per Dozen $2\frac{1}{4}$ Pounds.
One Dozen in a Box.



Wrought Steel

Length Strap $2\frac{1}{2}$ in., Length Pad $1\frac{1}{4}$
in., Width at Joint $\frac{3}{4}$ in.

Per Dozen
No. 346A—Bronze Plated..... \$2.00

When locked screws are concealed
and protected.

Weight Per Dozen $\frac{7}{8}$ Pound.
One Dozen in a Box, with Screws.

HINGE HASPS



Wrought Steel

No. 349-A—Bronze Plated

| | | |
|-------------------------|----------------|----------------|
| Size, Inches | 2 | $2\frac{1}{4}$ |
| Length Strap, In..... | $1\frac{1}{2}$ | $1\frac{3}{4}$ |
| Width at Joint, In..... | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Wt. Per Dozen, Lbs.... | $\frac{3}{4}$ | 1 |
| Per Dozen | \$1.90 | 2.00 |

One Dozen in a Box, with Screws.

HINGE CLASPS



Wrought Brass

Length $1\frac{1}{2}$ in., Width at Joint $\frac{5}{8}$ in.
Per Dozen

No. 850 —Polished \$1.50
No. 850N—Nickel Plated..... 1.60
Weight Per Dozen 2 Ounces.
Three Dozen in a Box.



Wrought Brass

Length $2\frac{3}{4}$ in., Width at Joint $\frac{3}{4}$ in.
Per Dozen

No. 03017 $\frac{1}{4}$ —Polished and Lac-
quered \$2.00
Weight Per Dozen 8 Ounces.
Three Dozen in a Box, Right and Left
Hand.



Wrought Brass

Length $2\frac{3}{4}$ in., Width at Joint 1 in.
Per Dozen

No. 03016 $\frac{1}{4}$ —Polished and Lac-
quered \$2.00
Weight Per Dozen 5 Ounces.
Three Dozen in a Box, Right and
Left Hand.

BOX CATCHES



Wrought Brass

$\frac{3}{8} \times 1\frac{3}{4}$ Inches.

Per Dozen
No. 866—Natural Finish..... \$1.00
Weight Per Dozen 3 Ounces.
Three Dozen in a Box.

CORNER BRACKETS



Wrought Brass, Dipped and Lacquered

| Nos. | 03602 | 03603 | 03604 | 03605 |
|---------------------------|----------------|----------------|----------------|---------------|
| Length Side, Inches..... | $\frac{3}{4}$ | 1 | $1\frac{1}{2}$ | 2 |
| Width, Inches..... | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Weight Per Gross, Lbs.... | $1\frac{1}{2}$ | $2\frac{1}{2}$ | 4 | 5 |
| Per Gross | \$4.50 | 4.80 | 6.00 | 7.25 |

One-half Gross in a Box.



Cast Brass, Buffed

| Nos. | 03654 | 03656 |
|---------------------------|----------------|----------------|
| Length Side, Inches..... | $2\frac{1}{4}$ | $3\frac{1}{2}$ |
| Width, Inches..... | $\frac{5}{8}$ | $\frac{5}{8}$ |
| Weight Per Dozen, Lbs.... | $1\frac{3}{4}$ | $2\frac{3}{4}$ |
| Per Dozen | \$4.75 | 8.00 |

Three Dozen in a Box.



No. 997—Wrought Steel, Bright

| | | | | | |
|--------------------------|----------------|----------------|----------------|----------------|----------------|
| Length Side, Inches... | 1 | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ | 3 |
| Width, Inches..... | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Weight Dozen, Lbs.... | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{7}{8}$ | $1\frac{1}{8}$ | $2\frac{1}{8}$ |
| Per Dozen | \$0.32 | .41 | .53 | .67 | .83 |
| Length Side, Inches..... | 4 | 5 | 6 | 8 | |
| Width, Inches..... | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{2}$ | |
| Weight Dozen, Lbs.... | $3\frac{3}{4}$ | 6 | $7\frac{1}{2}$ | 14 | |
| Per Dozen | \$1.48 | 1.93 | 2.45 | 3.86 | |

1 to 3 in., Two Dozen; 4 to 6 in., One Dozen; 8 in., One-half Dozen in a Box.



No. 998-C—Wrought Steel, Brass Plated

| | | | | |
|--------------------------|---------------|----------------|---------------|----------------|
| $\frac{1}{2}$ in. Wide. | | | | |
| Length Side, Inches..... | 1 | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ |
| Weight Dozen, Lbs.... | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{7}{8}$ | $\frac{7}{8}$ |
| Per Dozen | \$0.98 | 1.06 | 1.12 | 1.25 |

| | | | | |
|--------------------------|---------------|----------------|---------------|----------------|
| $\frac{3}{4}$ in. Wide. | | | | |
| Length Side, Inches..... | 1 | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ |
| Weight Dozen, Lbs.... | $\frac{1}{2}$ | $\frac{1}{2}$ | $\frac{7}{8}$ | $1\frac{1}{8}$ |
| Per Dozen | \$1.06 | 1.14 | 1.25 | 1.32 |

Two Dozen in a Box.

MENDING PLATES

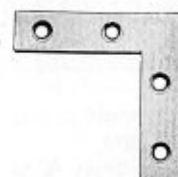


No. 995—Wrought Steel, Bright

| | | | | | | | |
|-----------------------|----------------|----------------|----------------|-----------------|-----|----------------|----------------|
| Length, Inches..... | 2 | $2\frac{1}{2}$ | 3 | 4 | 5 | 6 | 8 |
| Width, Inches..... | $\frac{5}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ |
| Weight Dozen, Lbs.... | $\frac{3}{10}$ | $\frac{1}{2}$ | $\frac{7}{10}$ | $1\frac{1}{10}$ | 2 | $2\frac{1}{2}$ | 4 |
| Per Dozen | \$0.46 | .54 | .63 | .80 | .95 | 1.13 | 1.44 |

Two Dozen in a Box.

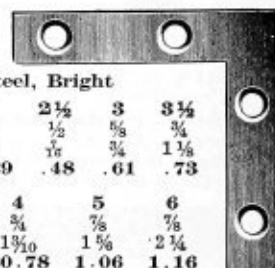
CORNER PLATES



Wrought Brass, Dipped and Lacquered

| Nos. | 03614 | 03615 | 03631 |
|---------------------------|---------------|----------------|----------------|
| Length Side, Inches..... | 2 | $2\frac{1}{2}$ | $3\frac{1}{2}$ |
| Width, Inches..... | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Weight Per Dozen, Lbs.... | $\frac{1}{4}$ | $\frac{5}{8}$ | $1\frac{3}{8}$ |
| Per Gross | \$7.90 | 11.50 | 16.00 |

No. 03631, Three Dozen; Others, Six Dozen in a Box.



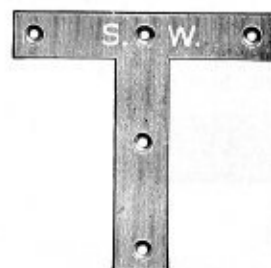
No. 999—Wrought Steel, Bright

| | | | | |
|-------------------------|---------------|----------------|---------------|----------------|
| Length Side, Inches.... | 2 | $2\frac{1}{2}$ | 3 | $3\frac{1}{2}$ |
| Width, Inches..... | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Weight Dozen, Lbs.... | $\frac{1}{4}$ | $\frac{1}{8}$ | $\frac{3}{4}$ | $1\frac{1}{8}$ |
| Per Dozen | \$0.39 | .48 | .61 | .73 |

| | | | |
|---------------------------|-----------------|-----------------|----------------|
| Length Side, Inches..... | 4 | 5 | 6 |
| Width, Inches..... | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{7}{8}$ |
| Weight Per Dozen, Lbs.... | $1\frac{3}{10}$ | 1 $\frac{1}{2}$ | $2\frac{1}{4}$ |
| Per Dozen | \$0.78 | 1.06 | 1.16 |

Two Dozen in a Box.

"T" PLATES



No. 995 1/2—Wrought Steel, Bright

| | | | | |
|---------------------------|--------|----------------|----------------|------|
| Size, Inches | 3x3 | 4x4 | 5x5 | 6x6 |
| Weight Per Dozen, Lbs.... | 1 | $1\frac{1}{2}$ | $2\frac{1}{2}$ | 5 |
| Per Dozen | \$1.90 | 2.25 | 3.15 | 4.50 |

6x6 in., One Dozen; Others, Two Dozen in a Box.

CORNER IRONS



No. 997 1/2—Wrought Steel, Bright, Corrugated

| | | | |
|---------------------------|---------------|----------------|----------------|
| Length Side, Inches..... | 1 | $1\frac{1}{2}$ | $2\frac{1}{4}$ |
| Width, Inches..... | 1 | $1\frac{1}{2}$ | $1\frac{3}{4}$ |
| Weight Per Dozen, Lbs.... | $\frac{1}{2}$ | $1\frac{1}{2}$ | $2\frac{1}{2}$ |
| Per Dozen | \$0.73 | .81 | 1.00 |

Two Dozen in a Box.

SAMPLE CASE
CORNERS

Wrought Brass

Size 1 1/4 in. Per Gross

No. 03712 1/4—Buffed and Lac-
quered\$8.40

No. 03712 1/4—Nickel Plated... 9.40

Weight Per Gross 2 Pounds.
One-half Gross in a Box.

Wrought Brass

Size 1 1/4 in. Per Gross

No. 03711 1/4—Buffed and Lac-
quered\$13.50

No. 03711 1/4—Nickel Plated.. 14.25

Weight Per Gross 5 1/4 Pounds.
One-half Gross in a Box.

Wrought Brass

Size 1 1/2 in. Per Gross

No. 03713 1/4—Buffed and Lac-
quered\$11.00

No. 03713 1/4—Nickel Plated.. 11.85

Weight Per Gross 4 Pounds.
One-half Gross in a Box.

Wrought Brass

Size 1 1/4 x 1/2 in. Per Gross

No. 03700 1/4—Buffed and Lac-
quered\$6.65No. 03700 1/4—Nickel Plated,
Buffed 7.25Weight Per Gross 1 1/4 Pounds.
One-half Gross in a Box.

Wrought Brass

Size 1 1/4 x 3/4 in. Per Gross

No. 03715 1/4—Buffed and Lac-
quered\$ 9.60No. 03715 1/4—Nickel Plated,
Buffed 10.80Weight Per Gross 3 1/2 Pounds.
One-half Gross in a Box.

CHEST CORNERS



Wrought Brass

Size 1 3/4 x 1 1/2 in. Per Gross

No. 03703 1/4—Buffed and Lac-
quered\$17.25No. 03703 1/4—Nickel Plated,
Buffed 19.00Weight Per Gross 6 1/2 Pounds.
One-half Gross in a Box.

Wrought Brass

Size 2 1/2 x 1 1/2 in. Per Gross

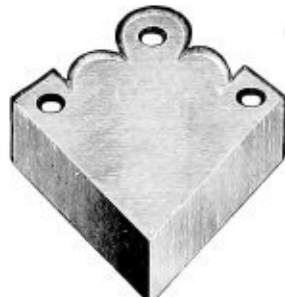
No. 03705 1/4—Buffed and Lac-
quered\$25.85

No. 03705 1/4—Nickel Plated.. 28.00

Weight Per Gross 11 Pounds.
One-quarter Gross in a Box.

Cast Brass

Size 1 1/2 x 3/4 in. Per Dozen

No. 03754 1/4—Buffed and Lac-
quered\$3.60Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box.

Cast Brass

Size 2 1/2 x 1 in. Per Dozen

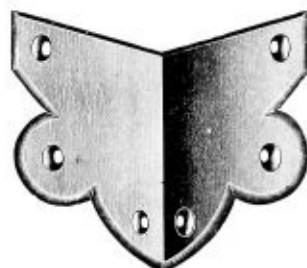
No. 03755 1/4—Buffed and Lac-
quered\$8.00Weight Per Dozen 2 1/4 Pounds.
One Dozen in a Box.

CHEST CORNERS



Cast Brass

Size 1 1/2 x 1 1/2 in.

No. 03751 1/4—Buffed and Lac-
quered\$3.00Weight Per Dozen 3/4 Pound.
One Dozen in a Box.

Cast Brass

Size 2 1/2 x 2 1/2 in.

No. 03752 1/4—Buffed and Lac-
quered\$7.00Weight Per Dozen 2 3/4 Pounds.
One Dozen in a Box.

Cast Brass

Size 2 1/2 x 2 1/2 in.

No. 03753 1/4—Buffed and Lac-
quered\$7.00Weight Per Dozen 2 1/2 Pounds.
One Dozen in a Box.

Cast Brass

Size 1 1/2 x 1 in.

No. 03750 1/4—Buffed and Lac-
quered\$3.00Weight Per Dozen 3/4 Pound.
One Dozen in a Box.

ESCUTCHEONS



Bronze

No. 2624— $1\frac{1}{2} \times \frac{3}{4}$ in. \$1.00
Three Dozen in a Box.



Brass

No. 2606— $\frac{3}{4}$ in. \$1.50
No. 2607— $\frac{7}{8}$ in. 1.50
No. 2608— $1\frac{1}{8}$ in. 1.50
Three Dozen in a Box, with Pins.



Wrought Brass, for Drawer

$1\frac{1}{8} \times 1\frac{1}{2}$ in. Per Dozen
No. 1444—Polished Brass \$0.64
No. 1444-DB—Dull Brass70

Wrought Brass, for Door

$1\frac{1}{2} \times 1\frac{3}{8}$ in. Per Dozen
No. 1445—Polished Brass \$0.64
No. 1445-DB—Dull Brass70
Three Dozen in a Box, with Pins.



Brass

No. 2617— $1 \times \frac{5}{8}$ in., Polished . . \$0.75
Three Dozen in a Box, with Pins.



Brass

No. 2618— $1\frac{1}{8} \times \frac{1}{2}$ in., Polished . \$0.85
Three Dozen in a Box, with Pins.



No. 0386—Cast Brass, Polished
Size, Inches $\frac{1}{2}$ $\frac{3}{4}$ $\frac{5}{8}$
Per Dozen \$2.00 2.00 2.00
One Gross in a Box.

ESCUTCHEONS



No. 386—Cast Brass, Semi-Polished
Size, Inches $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$
Per Dozen \$0.40 .40 .40

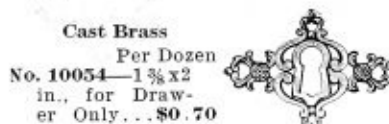
Size, Inches $\frac{5}{8}$ $1\frac{1}{8}$ $\frac{3}{4}$
Per Dozen \$0.40 .40 .40
Three Gross in a Box.



Cast Brass

No. 10055—2 in., for
Door Only \$0.70

One Dozen in a Box, with Pins.



Cast Brass

No. 10054— $1\frac{3}{8} \times 2$
in., for Draw-
er Only . . . \$0.70

One Dozen in a Box, with Pins.



Wrought Brass, for Drawer

$1 \times 2\frac{3}{8}$ in. Per Dozen
No. 1474 —Gilt \$0.36
No. 1474-O—Oxidized40

Wrought Brass, for Door

$2\frac{3}{8} \times 1$ in.
No. 1509 —Gilt \$0.36
No. 1509-O—Oxidized40
Three Dozen in a Box, with Pins.



Cast Brass

No. 4641 — $1\frac{1}{4} \times 2\frac{3}{4}$ in., for
Drawer \$1.20
No. 4652— $2\frac{3}{4} \times 1\frac{1}{4}$ in., for Door 1.20
One Dozen in a Box, with Pins.

ESCUTCHEON PULLS



Cast Brass

$3\frac{5}{8} \times \frac{1}{2}$ in.
No. 5575 — Polished Per Dozen
Brass \$2.40

No. 5575-DB—Dull Brass 2.70

No. 5575-SB — Antique
Brass, Sanded 2.85

One Dozen in a Box, with Pins.

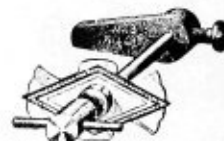
COMMODE BUTTONS



Wrought Brass Rosette

Solid Brass Bar and Head, Steel
Shank and Set Screw, Cast Iron
Tongue.

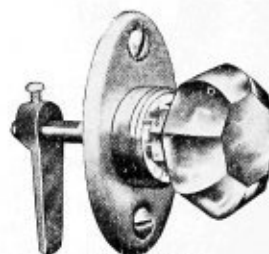
No. 920— $1\frac{1}{2}$ in. Bar, $\frac{7}{8}$ in.
Head, $\frac{7}{8} \times 2$ in. Rosette, $\frac{1}{2}$
in. Projection \$1.80
One Dozen in a Box.



Wrought Brass Rosette

Solid Brass Bar and Head, Steel
Shank and Set Screw, Cast Iron
Tongue.

No. 922— $1\frac{1}{8}$ in. Bar, $\frac{1}{2}$ in.
Head, $\frac{3}{4} \times 1\frac{1}{2}$ in. Rosette,
 $\frac{1}{2}$ in. Projection \$1.50
One Dozen in a Box.



Glass Knob

$1\frac{1}{4}$ in. Knob, 2 in. Escutcheon.
No. 721-E—Crystal Glass \$5.00
No. 821-E—Opal Glass 5.50
One Dozen in a Box.

CARRIAGE KNOBS



Cast Iron, Japanned

No. 50—Length Over All $1\frac{1}{4}$
in. \$1.50
Weight Per Box $1\frac{1}{2}$ Pounds.
One Hundred in a Box.

SASH KNOBS



No. B105—Cast Brass, Bright

Size, Inches $\frac{3}{8}$ $\frac{1}{2}$
Weight Box, Lbs. . . . $\frac{3}{4}$ $1\frac{1}{4}$
Per 100 \$7.50 8.00
Size, Inches $\frac{5}{8}$ $\frac{3}{4}$
Weight Box, Lbs. . . . $1\frac{3}{8}$ $3\frac{1}{8}$
Per 100 \$10.00 14.00
One Hundred in a Box.

SHUTTER KNOBS



No. A1533—Cast Brass, Polished
 Size, Inches..... $\frac{3}{4}$ 1 $\frac{1}{4}$
 Weight Dozen, Lbs.. $\frac{1}{16}$ 1 $\frac{1}{2}$
 Per Dozen \$3.35 4.00
 One Dozen in a Box.



Wrought Bronze
 Size 1 in.

Per Dozen
 No. R1534 $\frac{1}{4}$ —Polished Bronze \$2.40
 No. R1534 $\frac{1}{4}$ —Antique Copper,
 Polished 2.40
 No. EA1534 $\frac{1}{4}$ —Dull Brass, Nat-
 ural Color 2.40
 No. E1534 $\frac{1}{4}$ —Nickel Plated,
 Polished 2.80
 Weight Per Dozen $\frac{3}{8}$ Pound.
 One Dozen in a Box.



No. 15—White Porcelain Knob, Tinned
 Round Head Screw.

Size, Inches.... $\frac{5}{8}$ $\frac{3}{4}$ 1
 Wt. Box, Lbs.. $\frac{1}{2}$ 1 2
 Per 100 \$4.50 4.80 5.10
 Size, Inches..... 1 $\frac{1}{4}$ 1 $\frac{1}{2}$
 Weight Box, Lbs..... 3 5 $\frac{3}{4}$
 Per 100 \$6.80 8.80
 Fifty in a Box.

DRAWER KNOBS



Gloss Oak

Nos. 45-O 44-O
 Size, Inches..... 1 1 $\frac{1}{4}$
 Weight Dozen, Lbs. $\frac{1}{16}$ $\frac{3}{8}$
 Per Dozen \$1.00 1.00
 Nos. 43-O 42-O
 Size, Inches..... 1 $\frac{1}{2}$ 1 $\frac{3}{4}$
 Weight Dozen, Lbs. $\frac{1}{16}$ $\frac{1}{2}$
 Per Dozen \$1.00 1.00
 Per Dozen
 Unfinished—All Sizes..... \$0.50

Solid Mahogany, Glossed

Nos. 45-M 44-M
 Size, Inches..... 1 1 $\frac{1}{4}$
 Weight Dozen, Lbs. $\frac{1}{16}$ $\frac{3}{8}$
 Per Dozen \$1.00 1.00
 Nos. 43-M 42-M
 Size, Inches..... 1 $\frac{1}{2}$ 1 $\frac{3}{4}$
 Weight Dozen, Lbs. $\frac{1}{16}$ $\frac{1}{2}$
 Per Dozen \$1.00 1.00
 Per Dozen

Unfinished—All Sizes..... \$0.50
 Two Dozen in a Box, with Machine
 Screws.

DRAWER KNOBS



No. 5169—Cast Brass

Size, Inches..... 1 1 $\frac{1}{4}$
 Weight Dozen, Lbs.. $\frac{3}{8}$ 1 $\frac{1}{4}$
 Per Dozen \$3.60 5.00
 One Dozen in a Box, with Machine
 Screws.



Cast Brass
 Oval Head, Round Base.

Nos. 4516 4517
 Size, Inches..... $\frac{1}{2}$ x 1 $\frac{1}{4}$ $\frac{1}{2}$ x 1 $\frac{3}{4}$
 Weight Dozen, Lbs. 1 $\frac{1}{2}$ 1 $\frac{3}{4}$
 Per Dozen \$4.00 5.00

No. 4518
 Size, Inches..... 1 $\frac{1}{2}$ x 1 $\frac{1}{4}$
 Weight Dozen, Lbs..... 2 $\frac{1}{2}$
 Per Dozen \$7.00
 One Dozen in a Box, with Machine
 Screws.



No. 5168—Wrought Brass

Size, Inches..... 1 1 $\frac{1}{4}$
 Weight Dozen, Lbs.. $\frac{1}{2}$ $\frac{3}{4}$
 Per Dozen \$1.70 1.90
 Three Dozen in a Box, with Machine
 Screws.



No. 10038—Cast Brass Head,
 Wrought Brass Rosette

Size, Inches..... 1 $\frac{1}{4}$ 1 $\frac{1}{2}$
 Weight Dozen, Lbs.. 1 $\frac{1}{8}$ 1 $\frac{3}{8}$
 Per Dozen \$1.50 1.90
 Three Dozen in a Box, with Machine
 Screws.



Cast Brass, Antique Brass Finish

Nos. 498-AOB 499-AOB
 Size, Inches..... $\frac{1}{2}$ 1 $\frac{1}{8}$
 Wt. Dozen, Lbs. $\frac{3}{8}$ $\frac{1}{2}$
 Per Dozen \$1.75 2.00

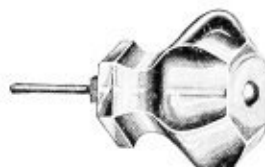
Two Dozen in a Box, with Machine
 Screws.

DRAWER KNOBS



Crystal Glass, Brass Base

Nos. 430 431 432
 Size, Inches.... 1 1 $\frac{1}{2}$ 1 $\frac{3}{4}$
 Wt. Dozen, Lbs. $\frac{5}{8}$ 1 $\frac{1}{2}$ 2 $\frac{1}{4}$
 Per Dozen..... \$1.90 2.40 2.75
 One Dozen in a Box, with Machine
 Screws.



Crystal Glass, Nickel Plated Bolt

Nos. 19 20
 Size, Inches..... $\frac{3}{8}$ 1 $\frac{1}{8}$
 Weight Dozen, Lbs.. $\frac{1}{16}$ 1
 Per Dozen \$1.00 1.25

Nos. 21 22
 Size, Inches..... 1 $\frac{1}{8}$ 1 $\frac{3}{8}$
 Weight Dozen, Lbs.. 1 $\frac{1}{8}$ 2 $\frac{3}{8}$
 Per Dozen \$1.40 1.50

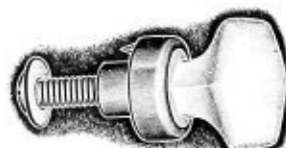
Two Dozen in a Box, with Bolts.



No. 5708—Crystal Glass, Brass Base

Size, Inches.... $\frac{3}{4}$ 1 $\frac{1}{8}$ 1 $\frac{1}{4}$
 Wt. Dozen, Lbs. $\frac{1}{8}$ 1 $\frac{1}{8}$ 2 $\frac{1}{2}$
 Per Dozen..... \$3.00 4.00 4.50

One Dozen in a Box, with Machine
 Screws.



Opal Glass, Nickel Base

Nos. 6718 6717
 Size, Inches..... $\frac{3}{4}$ 1
 Weight Dozen, Lbs.. $\frac{1}{2}$ 1 $\frac{1}{8}$
 Per Dozen \$5.40 6.15

Nos. 6716
 Size, Inches..... 1 $\frac{1}{8}$
 Weight Dozen, Lbs..... 2 $\frac{3}{8}$
 Per Dozen \$6.90

One Dozen in a Box, with Machine
 Screws.

RING PULLS



Wrought Brass Plate, Cast Brass Ring

| | | |
|------------------------|--------|-------|
| Nos. | 1543 | 1544 |
| Size Ring, Inches.... | 1 1/4 | 1 3/4 |
| Size Plate, Inches.... | 1 1/4 | 1 3/4 |
| Per Dozen | \$4.00 | 5.00 |

One Dozen in a Box, with Machine Screws.



Wrought Brass Stud, Brass Plated Steel Ring Per Dozen

No. 1170—1 1/2 in. Ring, 1 3/4 in. Rosette\$0.60

Three Dozen in a Box, with Bolts and Nuts.



Cast Brass Per Dozen

No. 4115—2 in. Ring, 2 1/4 x 2 1/2 in. Head\$5.70

One Dozen in a Box, with Bolts and Nuts.

PERIOD PULLS



Cast Brass, Antique Brass Finish Single Center Post, Screw Attachment. Per Dozen

No. 2679-AOB—2x1 1/4 in. Plate.\$2.00

No. 2680-AOB—2 1/2 x 1 1/2 in. Plate 2.50

Two Dozen in a Box.

PERIOD PULLS



Cast Brass, Antique Brass Finish Single Center Post, Screw Attachment. Per Dozen

No. 3290-AOB—1 3/4 in. Plate..\$2.00

No. 3291-AOB—2 1/4 in. Plate.. 2.50

Two Dozen in a Box.



Wrought Brass Plate, Cast Brass Bail Per Dozen

No. 1419—2 1/2 in. Center to Center of Studs, 2 1/4 x 3 in. Plate\$4.60

One Dozen in a Box, with Machine Screws.



Wrought Brass Plate, Cast Brass Bail Per Dozen

No. 1423—2 3/4 in. Center to Center of Studs, 2 1/4 x 3 1/2 in. Plate\$5.00

One Dozen in a Box, with Machine Screws.



Wrought Brass Plate, Cast Brass Bail Per Dozen

No. 1420—3 1/4 in. Center to Center of Studs, 2 1/4 x 3 1/2 in. Plate\$5.00

One Dozen in a Box, with Machine Screws.

ROSETTE BAIL PULLS



Wrought Brass Rosettes, Cast Brass Bail 3 in. Center to Center of Studs. Per Dozen

No. 5554 —Polished\$5.80

No. 5554-DB—Dull Brass 6.50

One Dozen in a Box, with Machine Screws.



Wrought Brass Rosettes, Solid Brass Bail 3 in. Center to Center of Studs, Offset Bail. Per Dozen

No. 1548—Polished\$2.50

One Dozen in a Box, with Machine Screws.



Wrought Brass Rosettes, Cast Brass Bail 3 in. Center to Center of Studs. Per Dozen

No. 6005 —Polished\$3.50

No. 6005-DB—Dull Brass..... 4.00

One Dozen in a Box, with Machine Screws.



Wrought Brass Rosettes, Solid Brass Bail 3 in. Center to Center of Studs. Per Dozen

No. 5154—Polished\$3.70

One Dozen in a Box, with Machine Screws.



Wrought Brass Rosettes, Brass Plated Bail Studs Adjustable from 3 to 3 1/4 in. Center to Center. Per Dozen

No. 1565—Polished\$0.56

Three Dozen in a Box, with Steel Nuts.

DRAWER PULLS



Wrought Brass Plate, Brass Plated Bail

- No. 1462—1½x4 in. Plate, 3 in. from Center to Center of Studs.....\$0.90
Three Dozen in a Box, with Bolts and Nuts.



Wrought Brass Plate, Brass Plated Bail

- No. 1541—1½x3¾ in. Plate, 3 in. from Center to Center of Studs.....\$1.10
Three Dozen in a Box, with Bolts and Nuts.



Wrought Brass Plate, Brass Plated Bail

1½x4¾ in. Plate, 3 in. from Center to Center of Studs.

- No. 1568-G—Gilt Finish\$1.20
No. 1568-O—Oxidized Copper 1.32
Three Dozen in a Box, with Bolts and Nuts.



Wrought Brass Plate, Cast Brass Bail

- No. 1405—1½x3¾ in. Plate, 2 in. from Center to Center of Studs.....\$7.50
No. 1406—1½x5¼ in. Plate, 3 in. from Center to Center of Studs..... 8.00
One Dozen in a Box, with Machine Screws.



Wrought Brass Plate, Solid Brass Bail

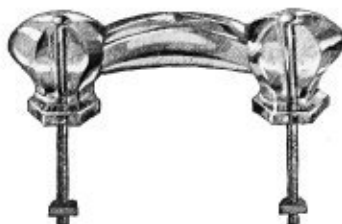
- No. 5935—1½x4¾ in. Plate, 3 in. from Center to Center of Studs.....\$6.50
One Dozen in a Box, with Machine Screws.

DRAWER PULLS



Cast Brass

- No. 10052—2x5 in. Plate, 3 in. from Center to Center of Studs.....\$4.80
One Dozen in a Box, with Screws.



Crystal Glass, Nickel Plated Bolts

- No. 36-H—3 in. from Center to Center of Bolts....\$6.50
One Dozen in a Box, with Bolts.

PENDANT PULLS

CHALFONT PATTERN



Cast Brass, Antique Brass Finish

Single Post, Screw Attachment.

- No. 2948-AOB—Length Over All
2½ in., Width Over All 1½ in.\$2.00
No. 2949-AOB—Length Over All
2¾ in., Width Over All 1½ in. 2.50
Two Dozen in a Box.

DOVER PATTERN

Wrought Steel Back, Cast Brass Post and Pendant, Antique Brass Finish

Single Post, Screw Attachment.

- No. 2850-AOB—Length Over All
2½ in., Diameter of Back 1 in.\$2.00
No. 2851-AOB—Length Over All
3½ in., Diameter of Back 1½ in. 2.50
Two Dozen in a Box.



MIRROR SCREWS



Cast Brass, Steel Bolt

No. 75-AOB—Length Over All
4 1/8 in., Bolt 2 3/4 in., An-
tique Brass Finish.....\$4.00

One Dozen in a Box.



Cast Brass, Steel Bolt

No. 5152—1 1/4 in. Ring, 3 1/2 in.
Bolt\$4.00

One Dozen in a Box.



Crystal Glass, Brass Base, Steel Bolt

No. 5725—1 3/8 in. Head, 3 1/2 in.
Bolt\$7.50

One Dozen in a Box.

DRAWER PULLS



Cast Bronze

No. B4362 1/2—2 1/4 in., Polished
Bronze, Weight Per Dozen
1 1/2 Lb.\$2.35

No. B4362 3/4—3 1/4 in., Polished
Bronze, Weight Per Dozen
1 3/4 Lb. 2.70

Three Dozen in a Box, with Screws.



Wrought Bronze

No. B04363 1/2—2 1/4 in., Polished
Bronze, Weight Per Dozen
1 1/4 Lb.\$1.20

Three Dozen in a Box, with Screws.

DRAWER PULLS



Cast Iron

No. TY3363 1/2—3 in., Amber
Bronzed, Weight Per Dozen
1 1/2 Lb.\$0.85
No. TY3366 1/2—4 in., Amber
Bronzed, Weight Per Dozen
1 1/4 Lbs. 1.00
Three Dozen in a Box, with Screws.

Cast Bronze

No. B4365 1/2—3 in., Polished
Bronze, Weight Per Dozen
1 1/2 Lb. 6.65
No. B4366 1/2—4 in., Polished
Bronze, Weight Per Dozen
1 1/2 Lbs. 7.20
One Dozen in a Box, with Screws.



Wrought Steel

No. J3371—3 3/8 in., Japanned,
Weight Per Dozen 3/4 Lb.\$4.60

Wrought Bronze

No. B3371 1/2—3 3/8 in., Polished
Bronze, Weight Per Dozen
3/4 Lb.13.35
Two Dozen in a Box, with Screws.



Cast Iron

Size 3 in.

No. EA3367—Dull Brass, Nat-
ural Color\$1.55
Weight Per Dozen 1 1/4 Lbs.

Size 4 in.

No. EA3367 1/2—Dull Brass, Nat-
ural Color 1.65
Weight Per Dozen 2 Pounds.

Cast Bronze

Size 3 in.

No. EA4367—Dull Brass, Natural
Color 5.55
No. A4367—Polished Brass.... 5.55
Weight Per Dozen 1 3/4 Pounds.

Size 4 in.

No. EA4367 1/2—Dull Brass, Nat-
ural Color 5.75
No. A4367 1/2—Polished Brass.. 5.75
Weight Per Dozen 2 Pounds.
One Dozen in a Box, with Machine
Screws.



Cast Iron, Amber Bronzed

No. Y01358—3 1/4 in., Weight
Per Dozen 1 1/2 Lbs.\$1.10
No. Y01360—4 1/4 in., Weight
Per Dozen 1 3/4 Lbs. 1.35
Three Dozen in a Box, with Screws.

DRAWER PULLS



Wrought Steel

Size 3 1/2 in.

No. B02106 1/2—Bronze Plated..\$8.35
No. R02106 1/2—Antique Copper,
Polished 8.35
No. EA02106 1/2—Dull Brass, Nat-
ural Color 8.35
No. SKA02106 1/2—Sanded Brass,
Oxidized and Relieved.... 9.10
No. E02106 1/2—Nickel Plated,
Polished9.10
Weight Per Dozen 5/8 Pound.
Two Dozen in a Box, with Screws.

Wrought Bronze.

Size 3 1/2 in.

No. B2106 1/2—Polished Bronze..20.75
No. R2106 1/2—Antique Copper,
Polished20.75
No. EA2106 1/2—Dull Brass, Nat-
ural Color20.75
No. A2106 1/2—Polished Brass..20.75
No. SKA2106 1/2—Sanded Brass,
Oxidized and Relieved....22.85
No. E2106 1/2—Nickel Plated,
Polished22.85
No. F2106 1/2—Genuine Rustless
Iron14.00
Weight Per Dozen 3/4 Pound.
One Dozen in a Box, with Screws.



Wrought Steel

Size 3 1/2 in.

No. R01364—Antique Copper,
Polished\$1.05
No. EA01364—Dull Brass, Nat-
ural Color 1.05
Weight Per Dozen 1 1/2 Lb.

Size 4 in.

No. R01365—Antique Copper,
Polished 1.20
No. EA01365—Dull Brass, Nat-
ural Color 1.20
Weight Per Dozen 1 1/2 Lb.
Three Dozen in a Box, with Screws.

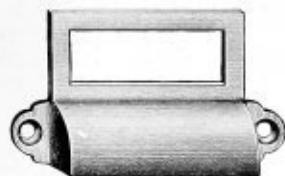
Wrought Bronze

Size 3 1/2 in.

No. B1364—Polished Bronze... 2.45
No. EA1364—Dull Brass, Nat-
ural Color 2.45
Weight Per Dozen 3/4 Pound.

Size 4 in.

No. B1365—Polished Bronze... 2.80
No. EA1365—Dull Brass, Nat-
ural Color2.80
Weight Per Dozen, 3/4 Pound.
One Dozen in a Box, with Screws.

**DRUGGIST DRAWER
PULLS****Cast Iron**

Size $1\frac{3}{4} \times 3\frac{1}{4}$ in., Opening $\frac{5}{8} \times 1\frac{3}{4}$ in.
Per Dozen

No. EA01631 $\frac{1}{4}$ —Dull Brass,
Natural Color\$4.20
Weight Per Dozen $1\frac{1}{2}$ Pounds.

Size $2\frac{1}{8} \times 4\frac{1}{8}$ in., Opening $\frac{3}{4} \times 2\frac{1}{2}$ in.

No. EA01632 $\frac{1}{4}$ —Dull Brass,
Natural Color 5.10
Weight Per Dozen $2\frac{1}{4}$ Pounds.

Cast Bronze

Size $1\frac{3}{4} \times 3\frac{1}{4}$ in., Opening $\frac{5}{8} \times 1\frac{3}{4}$ in.
Per Dozen

No. B1631—Polished Bronze...\$6.30
Weight Per Dozen $1\frac{1}{2}$ Pounds.

Size $2\frac{1}{8} \times 4\frac{1}{8}$ in., Opening $\frac{3}{4} \times 2\frac{1}{2}$ in.

No. B1632—Polished Bronze... 8.90
Weight Per Dozen $2\frac{5}{8}$ Pounds.
One Dozen in a Box, with Screws.

**CARD HOLDERS WITH
PULLS**

Wrought Brass, Buffed and Lacquered
Per Gross

No. 1901 $\frac{1}{4}$ —Card Space $1\frac{1}{8} \times$
 $1\frac{1}{4}$ in.\$10.50

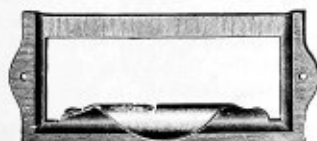
Weight Per Gross 3 Pounds.
One-quarter Gross in a Box.



Wrought Brass, Buffed and Lacquered
Per Gross

No. 1925 $\frac{1}{4}$ —Card Space $1 \times 2\frac{1}{2}$
in.\$9.75

Weight Per Gross $4\frac{3}{4}$ Pounds.
One-quarter Gross in a Box.



Wrought Brass, Buffed and Lacquered
Per Gross

No. 1905 $\frac{1}{4}$ —Card Space $1\frac{1}{8} \times 2\frac{1}{8}$
in.\$17.00

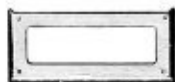
Weight Per Gross $6\frac{1}{2}$ Pounds.
One-quarter Gross in a Box.

**CARD HOLDERS WITH
PULLS****Cast Bronze, Polished**

Per 100

No. P830—Card Space $\frac{3}{4} \times 1\frac{1}{8}$
in.\$36.00

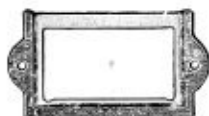
Weight Per Box $1\frac{3}{4}$ Pounds.
Twenty-five in a Box.

CARD HOLDERS

Wrought Brass, Buffed and Lacquered
Per Gross

No. 1916 $\frac{1}{4}$ —Card Space $\frac{3}{4} \times 1\frac{1}{8}$
in.\$6.90

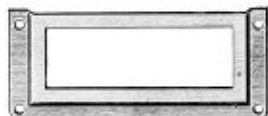
Weight Per Gross $1\frac{3}{4}$ Pounds.
One-quarter Gross in a Box.



Wrought Brass, Buffed and Lacquered
Per Gross

No. 1911 $\frac{1}{4}$ —Card Space $1\frac{1}{8} \times$
 $1\frac{1}{4}$ in.\$7.60

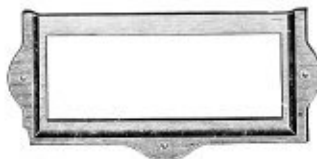
Weight Per Gross 2 Pounds.
One-quarter Gross in a Box.



Wrought Brass, Buffed and Lacquered
Per Gross

No. 1935 $\frac{1}{4}$ —Card Space $1 \times 2\frac{1}{2}$
in.\$8.00

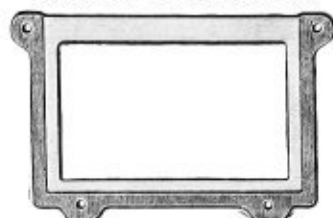
Weight Per Gross $3\frac{3}{4}$ Pounds.
One-quarter Gross in a Box.



Wrought Brass, Buffed and Lacquered
Per Gross

No. 1915 $\frac{1}{4}$ —Card Space $1\frac{1}{4} \times$
 $2\frac{1}{8}$ in.\$15.10

Weight Per Gross 4 Pounds.
One-quarter Gross in a Box.

CARD HOLDERS

Wrought Brass, Buffed and Lacquered
Per Gross

No. 1914 $\frac{1}{4}$ —Card Space $2\frac{1}{8} \times 3$
in.\$27.50

Weight Per Gross $7\frac{1}{2}$ Pounds.
One-quarter Gross in a Box.



Wrought Brass, Buffed and Lacquered
Per Gross

No. 1894 $\frac{1}{4}$ —Card Space $1\frac{1}{8} \times$
 $4\frac{1}{2}$ in.\$27.00

Weight Per Gross $5\frac{1}{2}$ Pounds.
One-quarter Gross in a Box.

**Cast Bronze, Polished**

Per Dozen

No. 2943—Size $1\frac{1}{4} \times 2\frac{1}{8}$ in.,
Opening $\frac{5}{8} \times 2\frac{1}{8}$ in.\$4.45

Weight Per Dozen $\frac{5}{8}$ Pound.

Three Dozen in a Box, with Screws.

**Cast Bronze, Polished**

Per Dozen

No. 2952—Size $1\frac{3}{4} \times 3\frac{3}{8}$ in.,
Opening $1\frac{1}{8} \times 2\frac{1}{4}$ in.\$6.65

Weight Per Dozen $\frac{3}{4}$ Pound.

No. 2959—Size $1\frac{1}{8} \times 4\frac{1}{8}$ in.,
Opening $1 \times 3\frac{3}{4}$ in. 6.90

Weight Per Dozen $\frac{7}{8}$ Pound.

Three Dozen in a Box, with Screws.

**If It's
BUILDERS' HARDWARE
We Have It**

CARD HOLDERS



Cast Bronze, Polished

No. 2954—Size 2 1/4 x 4 in., Opening 1 1/2 x 3 1/2 in. \$7.20
Weight Per Dozen 1 Pound.
Three Dozen in a Box, with Screws.

NAME PLATES



Wrought Brass, Dipped and Lacquered

| Nos. | 010 | 011 | 012 |
|-----------------|--------|-------|-------|
| Length, Inches. | 2 1/2 | 3 | 3 1/2 |
| Width, Inches. | 1 1/2 | 1 1/2 | 1 1/2 |
| Wt. Gross, Lbs. | 3/4 | 1 | 1 1/4 |
| Per Gross. | \$4.30 | 4.50 | 5.10 |

One Gross in a Box.



Wrought Brass, Dipped and Lacquered

| Nos. | 028 | 030 | 032 |
|-----------------|--------|-------|------|
| Length, Inches. | 3 | 4 | 5 |
| Width, Inches. | 7/8 | 7/8 | 7/8 |
| Wt. Gross, Lbs. | 1 1/4 | 2 1/2 | 3 |
| Per Gross. | \$5.50 | 6.20 | 7.90 |

One Gross in a Box.

FLUSH RINGS



No. 1179—Cast Brass, Polished

| Size, Inches. | 1 | 1 1/4 | 1 1/2 |
|------------------|-----------|---------------|-----------|
| Size, Plate, In. | 1 1/8 x 1 | 1 1/8 x 1 1/4 | 2 x 1 1/2 |
| Wt. Dozen, Lbs. | 7/8 | 1 | 1 1/2 |
| Per Dozen. | \$3.60 | 4.80 | 6.00 |

Three Dozen in a Box, with Screws.

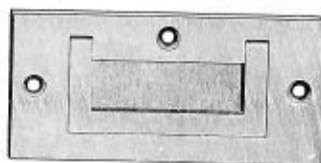


No. 1181 1/2—Cast Brass, Polished

| Size, Inches. | 1 1/4 | 1 1/2 |
|-----------------|--------|-------|
| Wt. Dozen, Lbs. | 1 1/2 | 1 3/4 |
| Per Dozen. | \$4.55 | 5.35 |

Three Dozen in a Box, with Screws.

FLUSH DRAWER HANDLES



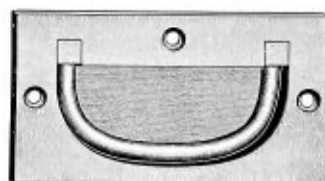
Cast Brass, Polished

Size 1 1/2 x 3 1/2 in.

Per Single Dozen

No. EA1724—Dull Brass, Natural Color \$13.35
No. A1724—Polished Brass 13.35

Weight Per Dozen 2 1/4 Pounds.
One Dozen in a Box, with Screws.



Cast Brass, Polished

| Nos. | 724 1/2 | 727 1/2 |
|-------------------|-----------|-----------|
| Size, Inches. | 2 x 3 1/2 | 2 1/4 x 4 |
| Wt. Dozen, Lbs. | 2 1/2 | 3 1/2 |
| Per Single Dozen. | \$14.65 | 16.00 |

One Dozen in a Box, with Screws.

TRAY HANDLES



Cast Brass, Polished

Per Dozen

No. 1218—2 x 2 1/2 in. \$5.50

Weight Per Dozen 1 Pound.

One Dozen in a Box.



Cast Brass, Polished

Per Dozen

No. 1219—3 x 3 1/4 in. \$6.00

Weight Per Dozen 2 1/2 Pounds.

One Dozen in a Box.

LIFTING HANDLES



Cast Brass, Polished

Bail Swings Both Ways.

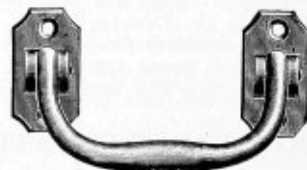
| Nos. | 516 1/2 | 518 1/2 |
|-------------------|---------|---------|
| Width Bail, In. | 2 1/2 | 3 1/2 |
| Wt. Dozen, Lbs. | 1 1/4 | 1 1/2 |
| Per Single Dozen. | \$6.95 | 8.20 |

Cast Brass, Polished

Bail Swings One Way.

| Nos. | 516 | 518 |
|-------------------|--------|-------|
| Width Bail, In. | 2 1/2 | 3 1/2 |
| Wt. Dozen, Lbs. | 1 1/4 | 2 |
| Per Single Dozen. | \$6.95 | 8.20 |

Two Dozen in a Box, with Screws.



Cast Iron, Japanned

| Nos. | 162 | 163 |
|---------------------|--------|-------|
| Width Over All, In. | 4 1/8 | 4 3/8 |
| Weight Box, Lbs. | 3 3/4 | 4 1/4 |
| Per Pair | \$0.30 | .34 |

Ten Pairs in a Box.

LEATHER HANDLES

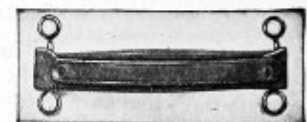


Per Dozen

No. 4—6 in., Leather Covered . . \$6.00

Weight Per Dozen 1 1/2 Pounds.

One Dozen in a Box.



Per Dozen

No. 5—6 in., Leather Covered . . \$6.00

Weight Per Dozen 2 3/8 Pounds.

One Dozen in a Box.



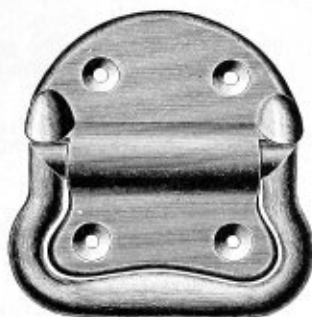
Per Dozen

No. 7—6 in., Leather Covered . . \$6.00

Weight Per Dozen 1 3/4 Pounds.

One Dozen in a Box.

CHEST HANDLES



Cast Iron, Japanned

| | | | |
|--------------------------------|--------|---------------|--------|
| Nos. | 01871 | 1871 | 1872 |
| Size, Inches | 3x3 | 3 1/2 x 3 1/2 | 4x4 |
| Wt. Per Dozen Pairs, Lbs. | 8 1/2 | 14 | 18 3/4 |
| Per Dozen Pairs | \$3.00 | 3.60 | 4.70 |

One-quarter Dozen Pairs in a Box, without Screws.

Cast Brass, Polished

| | | | |
|--------------------------------|-----------|---------------|----------|
| Nos. | 01871 1/2 | 1871 1/2 | 1872 1/2 |
| Size, Inches | 3x3 | 3 1/2 x 3 1/2 | 4x4 |
| Wt. Per Dozen Pairs, Lbs. | 8 3/4 | 16 1/2 | 20 3/4 |
| Per Dozen Pairs | \$40.00 | 35.20 | 52.80 |

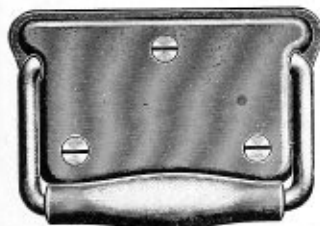
One-quarter Dozen Pairs in a Box, with Screws.



No. 1250J—Wrought Steel, Japanned

| | | |
|-----------------------------------|---------------|---------------|
| Width Handle, Inches | 3 1/2 | 4 |
| Size Plate, Inches | 3 3/4 x 3 1/2 | 4 1/2 x 3 1/2 |
| Weight Per Dozen Pairs, Lbs. | 9 1/2 | 12 1/2 |
| Per Dozen Pairs | \$5.70 | 7.95 |

One-quarter Dozen Pairs in a Box, with Screws.



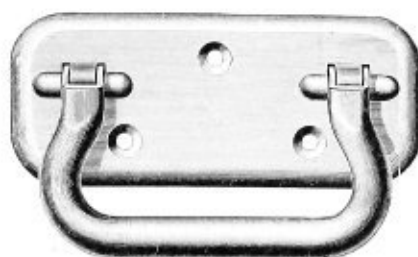
Wrought Steel, Tubular Grip, Japanned

| | |
|---|-----------------|
| No. 1216J—Width of Handle 4 1/2 in., Size of Plate 5x2 1/2 in. | Per Dozen Pairs |
| | \$10.00 |

Weight Per Dozen Pairs 16 Pounds.

One Pair in a Box, with Screws.

CHEST HANDLES



Wrought Steel, Brass Plated

| | | |
|----------------------------|---------------|-----------|
| Nos. | B2081 | B2082 |
| Width Handle, Inches | 3 1/2 | 4 |
| Size Plate, Inches | 1 3/4 x 4 1/4 | 2 x 4 3/4 |
| Weight Per Box, Lbs. | 2 1/2 | 2 3/4 |
| Per Pair | \$0.42 | .45 |

Five Pairs in a Box, with Screws.

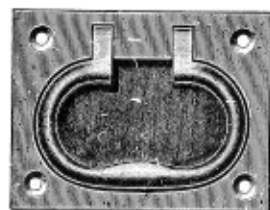


Wrought Steel, Brass Plated

| | |
|--|------------------|
| No. 567—Length Over All 3 1/2 in. | Per Single Dozen |
| | \$1.44 |
| Weight Per Dozen 2 1/2 Pounds. | |

One Dozen in a Box, with Screws.

FLUSH



Cast Iron, Japanned

| | | | |
|----------------------------|-----------|---------------|---------------|
| Nos. | 1874 | 1875 | 1876 |
| Size, Inches | 2 1/4 x 3 | 2 1/2 x 3 1/2 | 3 1/2 x 4 1/4 |
| Wt. Dozen Pairs, Lbs. | 8 | 10 | 22 1/2 |
| Per Dozen Pairs | \$4.90 | 5.00 | 8.00 |

One-half Dozen Pairs in a Box, without Screws.

Cast Brass, Polished

| | | | |
|----------------------------|-----------|---------------|---------------|
| Nos. | 1874 1/2 | 1875 1/2 | 1876 1/2 |
| Size, Inches | 2 1/4 x 3 | 2 1/2 x 3 1/2 | 3 1/2 x 4 1/4 |
| Wt. Dozen Pairs, Lbs. | 8 1/2 | 10 1/2 | 23 |
| Per Dozen Pairs | \$40.50 | 46.00 | 53.30 |

One-half Dozen Pairs in a Box, with Screws.

TUB HANDLES

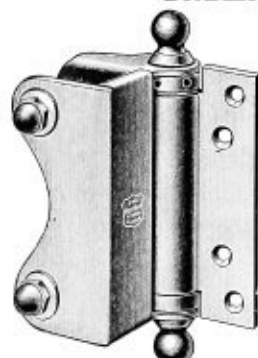


Wrought Steel, Japanned

| | |
|--|----------|
| No. 77—Width of Handle 4 1/4 in., 1 3/4 x 4 in. Heavy Curved Plate | Per Pair |
| | \$0.50 |
| Weight Per Box 7 3/4 Pounds. | |
| Ten Pairs in a Box. | |

LAVATORY SPRING HINGES

BOMMER, SINGLE ACTION



For lavatory doors on marble or slate partitions having hanging stile. Can be used for either right or left hand doors opening in or out.

For marble or slate partitions 1, 1 1/4, 1 1/2, 1 3/4 or 2 in. thick. Clamp is adjustable 1/8 in. over or under sizes to allow for variations in thickness of marble.

Length of Flanges 4 in., One Clamp Flange.

No. 1000B—Bronze, Highly Polished..... Per Pair \$17.60
No. 1000N—Brass, Nickel Plated..... 17.60

These hinges are made to close the door, but can be furnished in order to swing door open and hold it open.

Note—Always state Thickness of both Marble and the Door.

Weight Per Pair 3 Pounds.
One Pair in a Box, with Bolts and Screws.

HINGES AND BLANKS

For extra light and narrow Single Action Lavatory Doors a Spring Hinge and a Blank may be used.

No. 01000 Blank has 2 in. Flanges with one Clamp Flange.



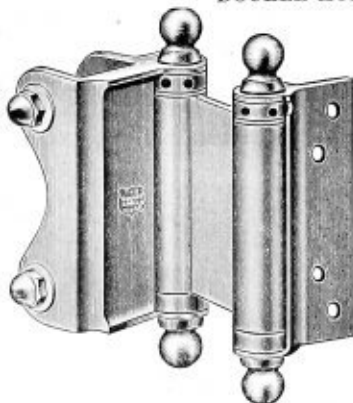
No. 01000 Blank.

No. 1000Bx01000B—Bronze, Highly Polished..... Per Set \$14.70
No. 1000Nx01000N—Brass, Nickel Plated..... 14.70

Set consists of one No. 1000 Spring Hinge and one No. 01000 Blank.

Weight Per Set 2 3/4 Pounds.
One Set in a Box, with Bolts and Screws.

DOUBLE ACTION



For lavatory doors on marble or slate partitions having hanging stile. Can be used for either right or left hand doors opening in or out.

For Marble or slate partitions 1, 1 1/4, 1 1/2, 1 3/4 or 2 in. Thick.

Clamp is not adjustable. Length of Flanges 4 in., one Clamp Flange.

No. 1005B—Bronze, Highly Polished..... Per Pair \$27.20
No. 1005N—Brass, Nickel Plated..... 27.20

Note—Always state exact Thickness of both the Marble and the Door.

Weight Per Pair 5 1/2 Pounds.
One Pair in a Box, with Bolts and Screws.

LAVATORY DOOR STRIKES

BOMMER

For lavatory doors on marble or slate partitions. The strikes have rubber bumpers, and are suitable for use on partitions 1, 1 1/4, 1 1/2, 1 3/4 or 2 in. thick.

The boxes are adjustable 1/8 in. over and under sizes to allow for variations in thickness of marble.



For Mortise Bolt, Reversible for Right or Left Hand Door opening in or out.

No. 1051B—Bronze, Highly Polished..... Each \$3.90
No. 1051N—Brass, Nickel Plated 3.90

Weight Each 5/8 Pound.

One in a Box, with Bolts.



For Throw Latch, Reversible for Right or Left Hand Door opening in.

No. 1052B—Bronze, Highly Polished..... Each \$4.00
No. 1052N—Brass, Nickel Plated 4.00

Weight Each 5/8 Pound.

One in a Box, with Bolts.



For Rim Bolt, Reversible for Right or Left Hand Door opening in.

No. 1055B—Bronze, Highly Polished..... Each \$4.00
No. 1055N—Brass, Nickel Plated 4.00

Weight Each 5/8 Pound.

One in a Box, with Bolts.



For Throw Latch, Reversible for Right or Left Hand Door opening out.

No. 1056B—Bronze, Highly Polished..... Each \$4.00
No. 1056N—Brass, Nickel Plated 4.00

Weight Each 5/8 Pound.

One in a Box, with Bolts.

Note—In ordering any of the above Strikes always state Thickness of Marble and Door.



For use on Face of Door.

No. 1070B—Bronze, Highly Polished..... Each \$1.10
No. 1070N—Brass, Nickel Plated 1.10

Weight Per Box 3/4 Pound.

Six in a Box, with Screws.

LAVATORY DOOR LATCHES



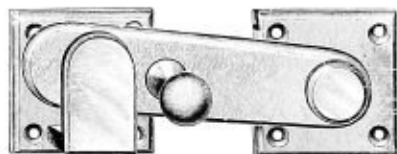
Cast Bronze, Polished

Length Bar 4 in., Plates, 2 in. Diameter and $2\frac{1}{8} \times \frac{3}{4}$.

| | |
|--|--------|
| No. B595 $\frac{1}{2}$ —Natural Color, Polished..... | Each |
| No. E595 $\frac{1}{2}$ —Nickel Plated, Polished..... | \$2.40 |

Weight Per Dozen 6 Pounds.

One-half Dozen in a Box, with Screws.



Cast Bronze, Polished

Length Bar 5 in., Plates 2x2 in.

| | |
|--|--------|
| No. B599 $\frac{1}{2}$ —Natural Color, Polished..... | Each |
| No. E599 $\frac{1}{2}$ —Nickel Plated, Polished..... | \$3.00 |

Weight Per Dozen 12 $\frac{1}{4}$ Pounds.

One-half Dozen in a Box, with Screws.

LAVATORY DOOR BOLTS

RIM, WITH INDICATOR



Cast Bronze, Polished

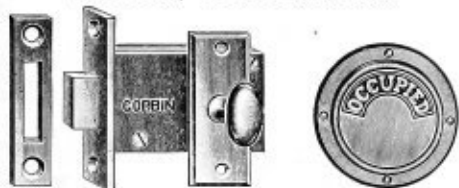
 $2\frac{1}{2} \times 2\frac{3}{8}$ in. Case, $1\frac{1}{8}$ in. Backset.

| | |
|---------------------------------------|--------|
| No. B156—Natural Color, Polished..... | Each |
| No. E156—Nickel Plated, Polished..... | \$3.80 |

Weight Per Dozen 12 Pounds.

One in a Box, with Screws.

MORTISE, WITH INDICATOR



Cast Bronze, Polished

| | |
|--|--------|
| No. B157 $\frac{1}{2}$ —Natural Color, Polished..... | Each |
| No. E157 $\frac{1}{2}$ —Nickel Plated, Polished..... | \$3.00 |

Description— $1\frac{1}{4} \times 2\frac{3}{4}$ in. Japanned Iron Case, $1\frac{3}{4}$ in. Backset, $3 \times 1\frac{1}{2}$ in. Cast Bronze Front, Cast Bronze Bolt, Cast Bronze Thumb Knob, Operated by Thumb Knob from One Side Only.

Weight Per Dozen 11 $\frac{1}{2}$ Pounds.

One in a Box, with Screws.

LAVATORY STALL STANDARDS

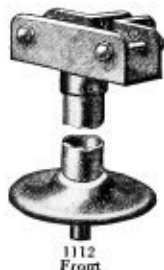
BOTTOM STANDARDS

These Standards are 12 in. in height and made for $1\frac{1}{4}$ in. stile and $1\frac{1}{8}$ in. partition marble. Height is from floor to under side of marble. Post is $1\frac{1}{8}$ in. outside diameter, flange $2\frac{3}{4}$ in. diameter.



Brass, Nickel Plated

| | |
|---|--------|
| No. 1110—End Piece, Weight Each $1\frac{1}{2}$ Lbs..... | Each |
| Open Stock. | \$7.80 |



Brass, Nickel Plated

| | |
|---|--------|
| No. 1112—Front Piece, Weight Each $2\frac{1}{4}$ Lbs..... | Each |
| No. 1111—Running Piece, Weight Each $2\frac{1}{2}$ Lbs..... | \$9.50 |
| Open Stock. | 7.90 |



Brass, Nickel Plated

| | |
|--|--------|
| No. 1113—Right Corner Piece, Weight Each $2\frac{1}{2}$ Lbs..... | Each |
| No. 1114—Left Corner Piece, Weight Each $2\frac{1}{2}$ Lbs..... | \$8.00 |
| Open Stock. | 8.00 |



LAVATORY STALL FITTINGS

ANGLE CLAMPS



Brass, Nickel Plated

| | |
|--|--------|
| No. 1133— $1\frac{1}{8} \times 1\frac{1}{8} \times 1$ in., Weight Per Box 1 Lb.... | Each |
| Six in a Box. | \$0.90 |

SPRING BUTT HINGES

BOMMER, DOUBLE ACTING



Three Leaf Type



In the double acting spring hinge the barrels and their connecting plate are integral and made of a thick, solid, strong plate of metal of full and even thickness throughout, formed into a contour giving great surplus strength.

The springs are of large diameter and unusual length, made of the best oil tempered steel wire, giving them great resilience and power.

Wrought Steel, Planished

Japanned Dead Black

| | | | | |
|--------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 29 | 30 | 33 | 36 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, In. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{1}{4}$ |
| Wt. Pair, Lbs. | 2 $\frac{3}{4}$ | 3 $\frac{3}{4}$ | 5 $\frac{1}{2}$ | 8 |
| Per Pair | \$5.10 | 6.10 | 7.20 | 8.90 |
| Nos. | 39 | 42 | 45 | 48 |
| Lgth. Flanges, In. | 7 | 8 | 10 | 12 |
| For Doors, In. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{1}{2}$ to $2\frac{1}{2}$ | $2\frac{1}{4}$ to 3 |
| Wt. Pair, Lbs. | 10 $\frac{3}{4}$ | 16 | 23 | 35 |
| Per Pair | \$11.40 | 16.50 | 22.80 | 30.40 |

Bronze or Brass Plated

| | | | | |
|--------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 479 | 480 | 483 | 486 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, In. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{1}{4}$ |
| Wt. Pair, Lbs. | 2 $\frac{3}{4}$ | 3 $\frac{3}{4}$ | 5 $\frac{1}{2}$ | 8 |
| Per Pair | \$6.90 | 8.30 | 9.70 | 12.40 |
| Nos. | 489 | 492 | 495 | |
| Lgth. Flanges, In. | 7 | 8 | 10 | |
| For Doors, In. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{1}{2}$ to $2\frac{1}{2}$ | |
| Wt. Pair, Lbs. | 10 $\frac{3}{4}$ | 16 | 23 | |
| Per Pair | \$16.00 | 22.80 | 31.40 | |

Note—In ordering, state whether bronze or brass plated are wanted.

Antique Copper

| | | | | |
|--------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 329 | 330 | 333 | 336 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, In. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{1}{4}$ |
| Per Pair | \$6.90 | 8.30 | 9.70 | 12.40 |
| Nos. | 339 | 342 | 345 | |
| Lgth. Flanges, In. | 7 | 8 | 10 | |
| For Doors, In. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{1}{2}$ to $2\frac{1}{2}$ | |
| Per Pair | \$16.00 | 22.80 | 31.40 | |

Dull Brass

| | | | | |
|--------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 629 | 630 | 633 | 636 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, In. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{1}{4}$ |
| Per Pair | \$6.90 | 8.30 | 9.70 | 12.40 |
| Nos. | 639 | 642 | 645 | |
| Lgth. Flanges, In. | 7 | 8 | 10 | |
| For Doors, In. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{1}{2}$ to $2\frac{1}{2}$ | |
| Per Pair | \$16.00 | 22.80 | 31.40 | |

Nickel Plated

| | | | | |
|--------------------|--------------------|---------------------------------|----------------------------------|----------------------------------|
| Nos. | 879 | 880 | 883 | 886 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, In. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{1}{4}$ |
| Per Pair | \$9.20 | 11.00 | 13.20 | 16.00 |

Solid Bronze

Polished Bronze Finish

| | | | | |
|--------------------|--------------------|---------------------------------|----------------------------------|--|
| Nos. | 129 | 130 | 133 | |
| Lgth. Flanges, In. | 3 | 4 | 5 | |
| For Doors, In. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | |
| Per Pair | \$18.30 | 20.80 | 25.60 | |

Note—Solid Bronze continued on next column.

SPRING BUTT HINGES

BOMMER, DOUBLE ACTING

Three Leaf Type—Continued

Solid Bronze

Polished Bronze Finish

| | | | |
|-------------------------|----------------------------------|---------------------|----------------------------------|
| Nos. | 136 | 139 | 142 |
| Length Flanges, Inches. | 6 | 7 | 8 |
| For Doors, In. | $1\frac{1}{4}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ |
| Per Pair | \$31.70 | 40.30 | 54.10 |

Dull Brass

| | | | |
|-------------------------|--------------------|---------------------------------|----------------------------------|
| Nos. | 729 | 730 | 733 |
| Length Flanges, Inches. | 3 | 4 | 5 |
| For Doors, In. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ |
| Per Pair | \$20.30 | 23.30 | 28.20 |

| | | | |
|-------------------------|----------------------------------|---------------------|----------------------------------|
| Nos. | 736 | 739 | 742 |
| Length Flanges, Inches. | 6 | 7 | 8 |
| For Doors, In. | $1\frac{1}{4}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ |
| Per Pair | \$34.70 | 44.30 | 59.50 |

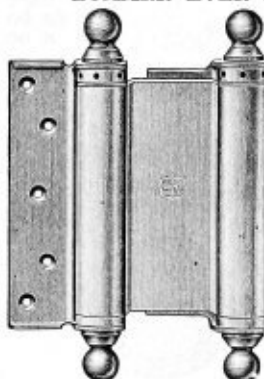
Nickel Plated

| | | | |
|-------------------------|--------------------|---------------------------------|----------------------------------|
| Nos. | 829 | 830 | 833 |
| Length Flanges, Inches. | 3 | 4 | 5 |
| For Doors, In. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ |
| Per Pair | \$20.30 | 23.30 | 28.20 |

| | | | |
|-------------------------|----------------------------------|---------------------|----------------------------------|
| Nos. | 836 | 839 | 842 |
| Length Flanges, Inches. | 6 | 7 | 8 |
| For Doors, In. | $1\frac{1}{4}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ |
| Per Pair | \$34.70 | 44.30 | 59.50 |

One Pair in a Box, with Screws.

BOMMER EVER READY, DOUBLE ACTING



No Hanging Strip Required



In the Ever Ready Double Action Spring the use of a hanging strip is eliminated, which greatly simplifies the fitting of the door.

The barrels and the connecting plate are integral, and made of a thick, solid, strong plate of metal of full and even thickness throughout, formed into a contour giving great surplus of strength. The springs have great resilience and power.

Wrought Steel, Planished

Japanned Dead Black

| | | | |
|-------------------------|--------------------|---------------------------------|----------------------------------|
| Nos. | 3029 | 3030 | 3033 |
| Length Flanges, Inches. | 3 | 4 | 5 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ |
| Weight Per Pair, Lbs. | 2 $\frac{3}{4}$ | 3 $\frac{3}{4}$ | 5 $\frac{1}{2}$ |
| Per Pair | \$5.10 | 6.10 | 7.20 |

| | | | |
|-------------------------|----------------------------------|---------------------|--|
| Nos. | 3036 | 3039 | |
| Length Flanges, Inches. | 6 | 7 | |
| For Doors, Inches. | $1\frac{1}{4}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to 2 | |
| Weight Per Pair, Lbs. | 8 $\frac{3}{4}$ | 11 $\frac{1}{4}$ | |
| Per Pair | \$8.90 | 11.40 | |

Antique Copper

| | | | |
|-------------------------|--------------------|---------------------------------|----------------------------------|
| Nos. | 3329 | 3330 | 3333 |
| Length Flanges, Inches. | 3 | 4 | 5 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ |
| Per Pair | \$6.90 | 8.30 | 9.70 |

| | | | |
|-------------------------|----------------------------------|---------------------|--|
| Nos. | 3336 | 3339 | |
| Length Flanges, Inches. | 6 | 7 | |
| For Doors, Inches. | $1\frac{1}{4}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to 2 | |
| Per Pair | \$12.40 | 16.00 | |

Dull Brass

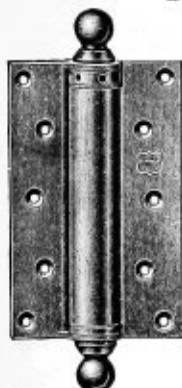
| | | | |
|-------------------------|--------------------|---------------------------------|----------------------------------|
| Nos. | 3629 | 3630 | 3633 |
| Length Flanges, Inches. | 3 | 4 | 5 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ |
| Per Pair | \$6.90 | 8.30 | 9.70 |

| | | | |
|-------------------------|----------------------------------|---------------------|--|
| Nos. | 3636 | 3639 | |
| Length Flanges, Inches. | 6 | 7 | |
| For Doors, Inches. | $1\frac{1}{4}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to 2 | |
| Per Pair | \$12.40 | 16.00 | |

One Pair in a Box, with Screws.

SPRING BUTT HINGES

BOMMER SINGLE ACTING



In this single action spring hinge the barrel and its leaf for fastening to the door are integral and made of a thick, solid, strong plate of metal of full and even thickness throughout, formed into a contour giving great surplus strength.

The springs are of large diameter and unusual length, made of the best oil tempered steel wire, giving them great resilience and power.

Single action hinges are made to close the door, but can be furnished to special order with reverse acting springs to swing the door open and hold it open without extra charge.

Wrought Steel, Plinished
Japanned, Dead Black

| | | | | |
|-------------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 0 | 1 | 5 | 9 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{3}{4}$ |
| Wt. Per Pair, Lbs. | 1 $\frac{1}{2}$ | 1 $\frac{7}{8}$ | 2 $\frac{3}{8}$ | 4 $\frac{1}{4}$ |
| Per Pair | \$3.10 | 3.70 | 4.30 | 5.30 |
| Nos. | 13 | 17 | 21 | 25 |
| Length Flanges, Inches. | 7 | 8 | 10 | 10 |
| For Doors, Inches. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{3}{4}$ to $2\frac{1}{2}$ | $1\frac{3}{4}$ to $2\frac{1}{2}$ |
| Weight Per Pair, Lbs. | 6 $\frac{1}{4}$ | 8 $\frac{7}{8}$ | 11 $\frac{1}{4}$ | 11 $\frac{1}{4}$ |
| Per Pair | \$6.80 | 9.90 | 13.70 | 18.70 |

Bronze or Brass Plated

| | | | | |
|-------------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 450 | 451 | 455 | 459 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{3}{4}$ |
| Per Pair | \$4.00 | 5.00 | 5.90 | 7.40 |
| Nos. | 463 | 467 | 471 | |
| Length Flanges, Inches. | 7 | 8 | 10 | |
| For Doors, Inches. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{3}{4}$ to $2\frac{1}{2}$ | |
| Per Pair | \$9.60 | 13.70 | 18.80 | |

Note—In ordering state if bronze or brass plated are wanted.

Antique Copper

| | | | | |
|-------------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 300 | 301 | 305 | 309 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{3}{4}$ |
| Per Pair | \$4.00 | 5.00 | 5.90 | 7.40 |
| Nos. | 313 | 317 | 321 | |
| Length Flanges, Inches. | 7 | 8 | 10 | |
| For Doors, Inches. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{3}{4}$ to $2\frac{1}{2}$ | |
| Per Pair | \$9.60 | 13.70 | 18.80 | |

Dull Brass

| | | | | |
|-------------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 600 | 601 | 605 | 609 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{3}{4}$ |
| Per Pair | \$4.00 | 5.00 | 5.90 | 7.40 |
| Nos. | 613 | 617 | 621 | |
| Length Flanges, Inches. | 7 | 8 | 10 | |
| For Doors, Inches. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{3}{4}$ to $2\frac{1}{2}$ | |
| Per Pair | \$9.60 | 13.70 | 18.80 | |

Nickel Plated

| | | | | |
|-------------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 850 | 851 | 855 | 859 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{3}{4}$ |
| Per Pair | \$5.50 | 6.60 | 7.90 | 9.60 |
| Nos. | 863 | 867 | 871 | |
| Length Flanges, Inches. | 7 | 8 | 10 | |
| For Doors, Inches. | $1\frac{1}{2}$ to 2 | $1\frac{1}{2}$ to $2\frac{1}{4}$ | $1\frac{3}{4}$ to $2\frac{1}{2}$ | |
| Per Pair | \$12.30 | 17.00 | 22.20 | |

Solid Bronze

Polished Bronze Finish

| | | | | |
|--------------------|--------------------|---------------------------------|----------------------------------|----------------------------------|
| Nos. | 100 | 101 | 105 | 109 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{3}{4}$ |
| Per Pair | \$10.10 | 12.40 | 15.00 | 19.00 |

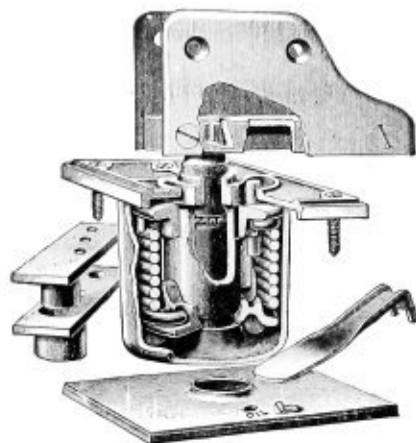
Nickel Plated

| | | | | |
|--------------------|--------------------|---------------------------------|----------------------------------|----------------------------------|
| Nos. | 800 | 801 | 805 | 809 |
| Lgth. Flanges, In. | 3 | 4 | 5 | 6 |
| For Doors, Inches. | $\frac{3}{4}$ to 1 | $\frac{7}{8}$ to $1\frac{1}{4}$ | $1\frac{1}{2}$ to $1\frac{1}{2}$ | $1\frac{1}{4}$ to $1\frac{3}{4}$ |
| Per Pair | \$11.20 | 13.70 | 16.60 | 20.80 |

One Pair in a Box, with Screws.

MORTISE FLOOR SPRING HINGES

BOMMER SPRING PIVOT, BALL BEARING



Heavy Wrought Steel Frame, Oil Tempered Steel Spring,
Tool Steel Ball Bearings

Japanned Dead Black

| | | |
|----------------------|---------------------------------|---------------------|
| Nos. | 2 | 4 |
| For Doors, Inches. | $\frac{7}{8}$ to $1\frac{1}{2}$ | $1\frac{1}{2}$ to 2 |
| Weight Per Set, Lbs. | 6 | 8 $\frac{1}{4}$ |
| Per Set | \$5.40 | 8.10 |

Bronze Plated

| | | |
|--------------------|---------------------------------|---------------------|
| Nos. | 452 | 454 |
| For Doors, Inches. | $\frac{7}{8}$ to $1\frac{1}{2}$ | $1\frac{1}{2}$ to 2 |
| Per Set | \$8.10 | 12.00 |

Antique Copper

| | | |
|--------------------|---------------------------------|---------------------|
| Nos. | 302 | 304 |
| For Doors, Inches. | $\frac{7}{8}$ to $1\frac{1}{2}$ | $1\frac{1}{2}$ to 2 |
| Per Set | \$8.10 | 12.00 |

Dull Brass

| | | |
|--------------------|---------------------------------|---------------------|
| Nos. | 602 | 604 |
| For Doors, Inches. | $\frac{7}{8}$ to $1\frac{1}{2}$ | $1\frac{1}{2}$ to 2 |
| Per Set | \$8.10 | 12.00 |

This Spring Pivot Hinge swings the door double action, but by using a stophead on the casing, it works equally well single action. It is easily fitted to a door of any thickness as the shoe is adjustable.

The weight of the door is supported on tool steel ball bearings set upon a raised center post. The ball bearings are covered by a hollow spindle which allows no water, dirt or grit to reach them, making them wear years longer.

Only the best oil tempered springs are used. All parts are interchangeable. No hanging strap is required, the back edge of the door being slightly rounded.

These hinges have springs correctly set up for the doors specified but the tension may be increased or decreased if desired after the hinge is in place.

They impart an easy movement to the door, are durable and noiseless, and do not permit the door to sag.

Regularly furnished with side plates, top pivot and top pivot socket.

One Set in a Box, with Wrench and Screws.

EXTRA SPRINGS

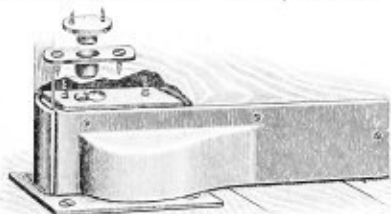
Oil Tempered Steel Wire



| No. | Each |
|---|--------|
| No. C10-2—For Nos. 2, 452, 302 and 602 Floor Spring Hinges | \$0.54 |
| No. C10-4—For Nos. 4, 454, 304 and 604 Floor Spring Hinges | .74 |
| Open Stock. | |

SURFACE FLOOR SPRING HINGES

SHELBY CHIEF BALL BEARING, DOUBLE ACTING



Heavy Wrought Steel Frame, Best Oil Tempered Steel Spring, Steel Foot Plate

| For Doors 1 1/4 to 1 3/4 in. Thick | | Per Set |
|---|--|---------|
| No. 42—Antique Copper, Planished, Weight Per Set 3 3/4 Lbs. | | \$3.75 |
| No. 15—Dull Brass, Weight Per Set 3 3/4 Lbs. | | 3.75 |
| No. 31—Antique Brass, Sanded, Weight Per Set 3 3/4 Lbs. | | 4.25 |
| For Doors 1 3/4 to 2 in. Thick | | |
| No. 44—Antique Copper, Planished, Weight Per Set 5 1/2 Lbs. | | 4.55 |
| No. 17—Dull Brass, Weight Per Set 5 1/2 Lbs. | | 4.55 |

No hole in the floor is necessary in installing this hinge, as it rests upon the surface of the floor.

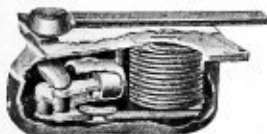
Furnished with jamb plates, when specified at a slight advance in price. Recommended for use where it is desired to hang the door to the jamb instead of leaving the hinge rest upon the floor.

The hinge holds the door open when it is swung to 90 degrees.

One Set in a Box, with Screws.

CHECKING FLOOR HINGES

RIXON SINGLE ACTING



Cast Brass Floor Plate, Best Oil Tempered Steel Spring

Complete with cement case which is necessary in cement or other masonry floor, and bronze pivot for top of door.

Dull Brass Each

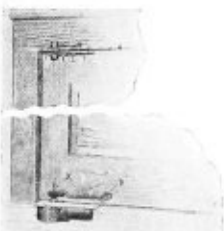
| | |
|---|---------|
| No. 25—6 1/2 x 9 7/8 in. x 4 1/8 in. Deep, for Outside Doors up to 3 ft. 6 in. Wide x 7 ft. 6 in. High, Weight Each 42 Lbs. | \$28.00 |
|---|---------|

This hinge will permit the door to open clear back, 180 degrees, and close from this point. The tension is adjustable to take care of varying conditions.

The weight of the door rests on a drop forged and case hardened steel spindle which is supported on a bearing composed of ten 1/4 in. balls which run in a case hardened ball race. The door can be raised or lowered at any time to take care of sagging. The whole device is filled with checking fluid of high lubricating qualities and will not freeze at 40 degrees below zero.

Note—In ordering, state if for Right or Left hand door. One in a Box, with Screws.

RIXON JUNIOR DOUBLE ACTING



For Use on Light Interior Doors

Permits the door to swing in both directions, closing it gently and bringing it to rest at center without any "Flip-Flap."

All wearing parts are of case hardened steel and immersed in a lubricating liquid which also serves to check the closing speed of the door.

Automatically holds door open at right angles.

Dull Brass Each

| | |
|---|---------|
| Rixon Junior—For Light Interior Doors up to 2 ft. 8 in. Wide. | \$10.00 |
|---|---------|

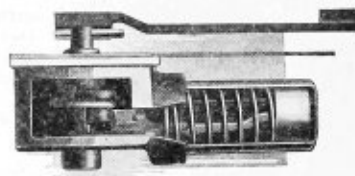
Rixon Junior Cement Case—For Use in Masonry Floors 1.00

Note—Can be furnished without Hold-Open Feature when so ordered at same price.

One in a Box, with Screws.

CHECKING FLOOR HINGES

RIXON DOUBLE ACTING



Cast Brass Floor Plate, Best Oil Tempered Steel Spring

4 1/2 x 8 3/4 in. x 3 in. deep. The dimensions are the same for either the No. 10 or No. 15, and are the same with or without cement case. A cast iron cement case must be used when check is set in cement or other masonry floors.

Dull Brass

| | Each |
|--|---------|
| No. 10—For Doors Up to 2 ft. 8 in. Wide, Weight Each 10 3/4 Lbs. | \$15.00 |
| No. 15—For Doors Up to 3 ft. Wide, Weight Each 11 Lbs. | 18.00 |
| No. 10C—Cement Cases, Weight Each 4 Lbs. | 1.00 |
| No. 15C—Cement Cases, Weight Each 4 Lbs. | 1.00 |

This device was designed for pantry doors, gates in office railings, etc.

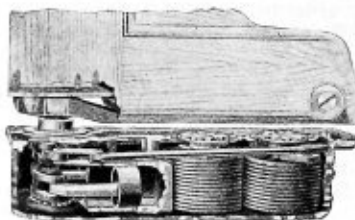
It permits the door to swing in both directions, yet brings it quietly back to rest at center, without any flip-flap. The oil checking feature makes it operate the same as an ordinary liquid door check and closer.

It automatically holds the door open when opened to 90 degrees.

When used for railing gates a special top pivot and arm is furnished when so ordered.

This hinge has no side plates.

One in a Box, with Screws.



Cast Brass Floor Plate, Best Oil Tempered Springs

Complete with cement case for use in cement or other masonry floors.

Dull Brass

| | Each |
|---|---------|
| No. 30—5 1/2 x 14 1/4 in. x 3 5/8 in. Deep, for Outside Doors up to 2 ft. 10 in. x 7 ft. 6 in., Weight Each 52 Lbs. | \$44.00 |
| No. 40—6 1/2 x 17 1/2 in. x 4 1/8 in. Deep, for Outside Doors up to 3 ft. 6 in. x 7 ft. 6 in., Weight Each 73 Lbs. | 60.00 |

This device has two springs and two checking mechanisms, one spring and check operating when the door swings on one side of the doorway, and the second spring and check operating when the door swings on the other side of the doorway.

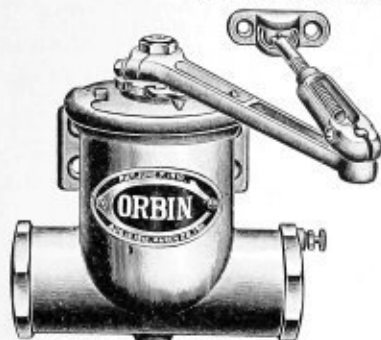
This causes the check to function perfectly on windy days when it takes a great deal of spring power to close the door after it has been opened inwardly, but very little checking resistance to keep the door from slamming, while when the door is opened outward a great deal of checking resistance is needed to keep the door from slamming, and very little spring power to close it.

The spindle, links and other parts subjected to wear are made of drop forged steel and case hardened. The spindle runs on 3/8 in. steel balls and the whole device is filled with non-freezing checking fluid, which possesses high lubricating qualities.

One in a Box, with Screws.

LIQUID DOOR CHECKS

CORBIN 1911 MODEL



Right or Left Hand without change. Not affected by extremes of temperature, and can be adjusted to any draught by a turn of a screw.

The rack and pinion keep the door under checking control from the moment the motion of closing begins until the door touches the stop noiselessly and is held in close contact with it.

Cast Iron, Columbian Bronzed

| No. | Description | Weight Each | Each |
|--------|---|-------------|---------|
| No. 1— | For Screen Doors, Weight Each 6 1/4 Lbs. | 6 1/4 | \$ 8.65 |
| No. 2— | For Light Inside Doors Not Over 7x3 ft., Weight Each 8 1/4 Lbs. | 8 1/4 | 11.00 |
| No. 3— | For Vestibule, Heavy Inside, or Any Outside Door Not Over 7x2 1/2 ft., Weight Each 13 1/2 Lbs. | 13 1/2 | 13.35 |
| No. 4— | For Outside Doors Not Larger than 7 1/2 x 3 ft., Weight Each 17 3/4 Lbs. | 17 3/4 | 16.00 |
| No. 5— | For Doors Not Larger than 7 1/2 x 4 ft., Weight Each 22 Lbs. | 22 | 21.35 |
| No. 6— | For Extra High and Extra Heavy Doors, Such as are Used in Public Buildings, Weight Each 27 Lbs. | 27 | 26.65 |

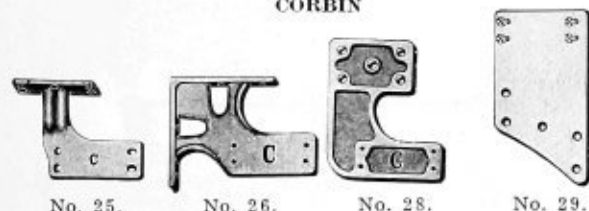
If door is Unusually Heavy, or Very Strong Draughts are to be Encountered, Use One Size Larger than Specified.

Note—Can also be furnished with Hold Back feature to hold the door open at any desired angle. In ordering Checks with Hold Back Attachment prefix 10 to number as 101, 102, etc.

One in a Box, with Screws and Instructions for Applying.

DOOR CHECK BRACKETS

CORBIN



Cast Iron, Columbian Bronzed

| For Check, Nos. | 1 | 2 | 3 |
|---|--------|------|------|
| No. 25—Overhead Bracket Each, | \$0.95 | 1.05 | 1.20 |
| No. 26—Corner Bracket Each, | 1.35 | 1.75 | 2.00 |
| No. 28—Flush Bracket Each, | 1.20 | 1.35 | 1.75 |
| No. 29—Circular Top Bracket..Each, | 2.55 | 2.55 | 3.10 |
| For Check, Nos. | 4 | 5 | 6 |
| No. 25—Overhead Bracket Each, | \$1.45 | 2.00 | 2.15 |
| No. 26—Corner Bracket Each, | 2.55 | 3.05 | 3.25 |
| No. 28—Flush Bracket Each, | 2.00 | 2.40 | 2.55 |
| No. 29—Circular Top Bracket..Each, | 3.35 | 3.65 | 3.85 |

In Ordering State the Number of Bracket and Number of Check with which the Bracket is to be Used.

One in a Package, with Screws.

EXTRA SPRINGS

FOR CORBIN LIQUID DOOR CHECKS



| Nos. | 139-1 | 139-2 | 139-3 | 139-4 | 139-5 | 139-6 |
|-----------------|--------|-------|-------|-------|-------|-------|
| For Check, Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
| Each | \$1.00 | 1.25 | 1.65 | 2.10 | 3.15 | 4.00 |

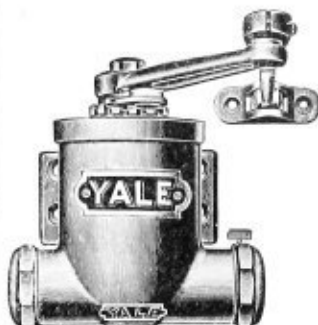
FOR YALE LIQUID DOOR CLOSERS

| Nos. | 319-71 | 319-72 | 319-73 | 319-74 | 319-75 |
|-----------------|--------|--------|--------|--------|--------|
| For Check, Nos. | 71 | 72 | 73 | 74 | 75 |
| Each | \$1.15 | 1.15 | 1.35 | 1.70 | 2.50 |

Open Stock.

DOOR CLOSERS

YALE LIQUID



The essential mechanism of the Yale Door Closer comprises a powerful coiled spring, (which furnishes the motive power to close the door) and a piston working in a metallic cylinder against the pressure of a non-freezing liquid (which furnishes the checking or controlling resistance).

Can be used either right or left hand by reversing the arm without reversing the coil spring.

Cast Iron, Gold Bronzed

| No. | Description | Weight Each | Each |
|---------|---|-------------|---------|
| No. 71— | For Screen or Very Light Inside Doors, Weight Each 5 1/2 Lbs. | 5 1/2 | \$ 6.20 |
| No. 72— | For Light Inside Doors, Weight Each 8 Lbs. | 8 | 8.10 |
| No. 73— | For Inside Doors of Medium Size, Weight Each 10 1/4 Lbs. | 10 1/4 | 9.60 |
| No. 74— | For Heavy Inside or Ordinary Outside Doors, Weight Each 13 1/2 Lbs. | 13 1/2 | 11.50 |
| No. 75— | For Heavy Outside Doors, Weight Each 17 1/4 Lbs. | 17 1/4 | 15.30 |

If Doors are Unusually Heavy or Very Strong Draughts are to be Encountered, Use One Size Larger than Specified.

Under certain conditions it is deemed advisable not to install a Closer which may be regulated by unauthorized persons. In such cases Yale Door Closers may be obtained with a Special Key Regulator, which may be removed from the Closer.

One in a Box.

DOOR CLOSER BRACKETS

YALE



Corner Bracket. Soffit Bracket. Flush Bracket.

Cast Iron, Gold Bronzed.

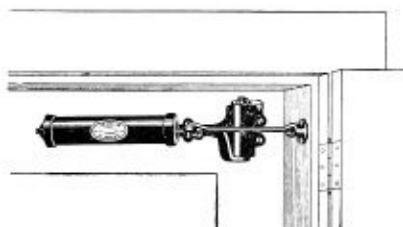
| For Checks, Nos. | 71 | 72 | 73 | 74 | 75 |
|------------------------|--------|------|------|------|------|
| Corner Bracket...Each, | \$0.95 | 1.30 | 1.40 | 1.85 | 2.25 |
| Soffit Bracket...Each, | .70 | .80 | .90 | 1.10 | 1.40 |
| Flush Bracket...Each, | .90 | .95 | 1.30 | 1.40 | 1.75 |

In Ordering Specify Both Type of Bracket and Number of Door Closer.

Open Stock.

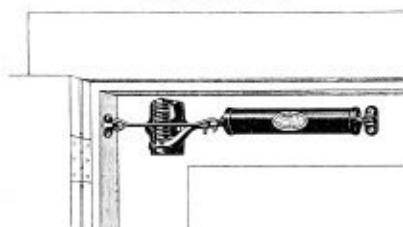
SCREEN DOOR CHECKS

LARDNER



Dull Brass Finish

No. 2A—For Screen, Storm and Other Light Doors. Each \$2.25
Weight Each 2½ Pounds.
One in a Box.



Dull Brass Finish

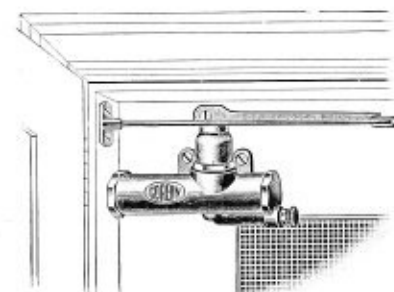
Fits in 2 in. Space Between Doors.

No. 3A—For Screen, Storm and Other Light Doors. Each \$2.00

This check was designed and built to fill the demand for a door check that can be used in a space of only 2 in. between doors.

Weight Each 2 Pounds.
One in a Box.

CORBIN



Cast Iron

No. 01—Columbian Bronzed. Each \$4.60

Right or left hand without change, requires only 3 in. space between doors and can be applied to top rail as narrow as 3½ in.

Weight Each 4 Pounds.
One in a Box, with Screws.

NO-SLAM



No. 1—Rubber Ball, Nickel Plated Trimmings. Each \$0.34

This is an automatic check for screen doors which can be applied to any screen door in connection with any spring or spring hinge.

Weight Per Box 2 Pounds.
Ten in a Box, with Screws.

SCREEN DOOR CHECKS

DIME

Per Dozen

No. 2—Moulded Rubber Bumper, Tapered to Give the Greatest Amount of Spring. \$1.40

Checks the door 3 in. from closing point.

Weight Per Dozen 1 Pound.
One Dozen in a Box.



DOOR SPRINGS

PERFECTION



Hook Ends, Coned Pattern, Japanned

| Nos. | Size Wire, Nos. | Outside Diam., Inches | Length Over All, Inches | Weight Gross, Lbs. | Per Gross |
|------|-----------------|-----------------------|-------------------------|--------------------|-----------|
| 11 | 19 | 3/4 | 16 3/8 | 15 | \$4.00 |
| 12 | 19 | 3/4 | 16 3/8 | 21 | 4.50 |
| 13 | 17 1/2 | 3/4 | 16 3/8 | 27 | 5.00 |
| 14 | 16 1/2 | 3/4 | 16 3/8 | 33 | 5.50 |
| 15 | 16 | 7/8 | 16 1/2 | 39 | 6.50 |
| 16 | 15 1/2 | 1 1/2 | 16 1/2 | 48 | 8.00 |

One Dozen in a Box, with Screw Eyes.

VICTOR



Crucible Steel Spring, Malleable Iron Fixtures, Coppered Each

No. 170—9 in. Long, 3/4 in. Diameter Spring, for Light Screen Doors, Weight Each 3/4 Lbs. \$0.22

No. 171—10 in. Long, 3/4 in. Diameter Spring, for Ordinary Screen Doors, Weight Each 1 1/2 Lb.28

No. 172—11 in. Long, 1 1/8 in. Diameter Spring, for Medium Weight Doors, Weight Each 5/8 Lb.34

No. 173—12 in. Long, 1 in. Diameter Spring, for Heavy Doors, Weight Each 1 1/4 Lbs.44
Five in a Box, with Screws.

TORREY



Malleable Iron Fixtures, Steel Rod Each
No. 2—38 in., Japanned, Weight Per Dozen 6 1/4 Lbs. \$0.50

Ten in a Box, with Screws.

SPRING HINGES

SINGLE ACTING

Wrought Steel

Per Dozen Pairs

No. 3—3 in. Flanges, Walnut Bronzed. \$4.30

Wrought Brass

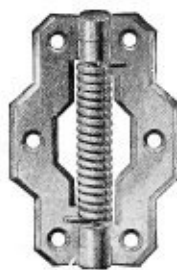
No. 703—3 in. Flanges, Natural Color. 6.65

No. 978—2 3/4 in. Flanges, Polished. 6.65

Weight Per Dozen Pairs 3 Pounds.

One Dozen Pairs in a Box, No. 978

Packed with Screws.



DOUBLE ACTING

Wrought Steel

Per Dozen Pairs

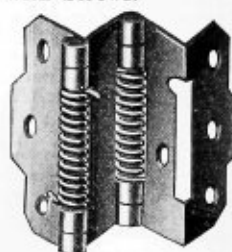
No. 13—3 in. Flanges, Walnut Bronzed. \$ 8.65

Wrought Brass

No. 413—3 in. Flanges, Natural Color. 14.05

Weight Per Dozen Pairs 6 3/4 Pounds.

One Dozen Pairs in a Box.



SPRING HINGES

SHOW CASE AND CABINET



Wrought Steel

Per Dozen Pairs
No. 1—2 in. Flanges, Ja-
panned\$2.35

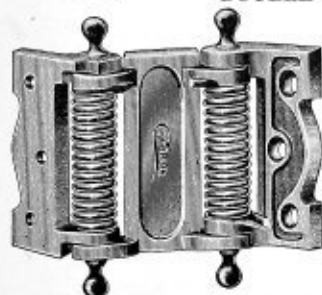
Wrought Brass

No. 6—2 in. Flanges, Natural
Color 5.05

Weight Per Dozen Pairs 2 Pounds.

One Dozen Pairs in a Box.

DOUBLE ACTING

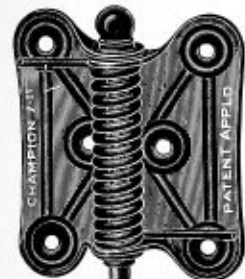
Cast Iron, Oil Tempered
Springs

Per Dozen Pairs
No. 630J—Japanned,
for Doors 1 or 1½
in. Thick\$4.50

Weight Per Dozen Pairs 18
Pounds.Five-twelfth Dozen Pairs
in a Carton.

SCREEN DOOR HINGES

CHAMPION

Wrought Steel, Planished, Loose
Pin

Per Dozen Pairs
No. 7-11—3x2 ¼ in., Ja-
panned\$2.00

Weight Per Dozen Pairs 4 ½
Pounds.Five-sixth Dozen Pairs in a
Carton.

CHAMPION HOLDBACK

Cast Iron

Per Dozen Pairs
No. 600—3x2 in., Japanned..\$1.50

Weight Per Dozen Pairs 8 ¼
Pounds.Five-twelfth Dozen Pairs in a
Carton.

BOMMER

Wrought Steel, Detachable

Size 2 ¼ x 2 ¼ in.

Per Dozen Pairs
No. 960—Japanned\$5.90
No. 962—Antique Copper... 9.50
No. 963—Dull Brass 9.50
No. 964—Nickel Plated ...10.50

To detach, open the door and
push the end of the spring down
into the hook on the barrel, and
withdraw the pin.

Weight Per Dozen Pairs 8 Pounds.

One Dozen Pairs in a Box; Japanned without Screws, Others
with Screws.

SCREEN DOOR HINGES

BOMMER



Wrought Steel

Size 2 ¼ x 2 ¼ in.

Per Dozen Pairs
No. 900—Japanned\$ 6.20
No. 902—Antique Copper... 10.10
No. 903—Dull Brass 10.10
No. 904—Nickel Plated... 11.20

Weight Per Dozen Pairs 7 ½
Pounds.One Dozen Pairs in a Box; Ja-
panned without Screws, Oth-
ers, with Screws.

Wrought Steel, Half Surface

Size 2 ¼ x 2 ¼ in.

Per Dozen Pairs
No. 970—Japanned\$ 8.90
No. 972—Antique Copper 11.90
No. 973—Dull Brass 11.90
No. 974—Nickel Plated 13.10

One leaf is fastened to the casing,
the other is fastened to the surface of
the door.

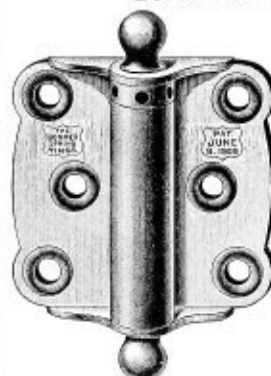
Weight Per Dozen Pairs 8 Pounds.

One Dozen Pairs in a Box; Japanned without Screws, Others
with Screws.

BOMMER ADJUSTABLE TENSION

Wrought Steel, Heavy

Size 3x3 in.



Per Pair
No. 2100—Japanned Dead
Black\$1.90
No. 2101—Bronze Plated. 2.50
No. 2102—Antique Cop-
per 2.50
No. 2103—Dull Brass.... 2.50
No. 2104—Nickel Plated.. 3.30
No. 2105—Sand Blast Fin-
ish 3.30

Wrought Bronze

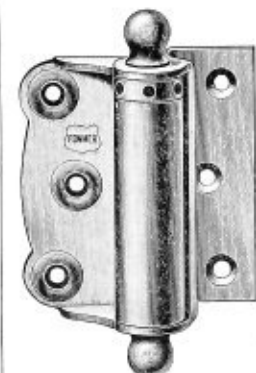
Size 3x3 in.

No. 2110—Polished Bronze 5.20
No. 2113—Nickel Plated.. 5.80

The tension of the spring can be regulated after the
hinge is applied to the door.

Weight Per Pair 1 ¼ Pounds.

One Pair in a Box, with Screws.

Wrought Steel, Heavy,
Half Surface

Size 3x3 in.

Per Pair
No. 2200—Japanned Dead
Black\$1.90
No. 2201—Bronze Plated... 2.50
No. 2202—Antique Copper... 2.50
No. 2203—Dull Brass 2.50
No. 2204—Nickel Plated ... 3.30
No. 2205—Sand Blast Fin-
ish 3.30

One leaf is fastened to the cas-
ing, the other to the surface of the
door.

Weight Per Pair 1 ¼ Pounds.

One Pair in a Box, with Screws.

SCREEN DOOR SETS



Wrought Steel, Loose Pin Butts with Ball Tips
Per Dozen Sets

- No. 1750J — Japanned Finish \$7.10
 No. 1750F — Dull Brass Finish 8.35
 No. 1750D2 — Antique Copper Finish 8.35

Contents of Set

- One Pair No. 1751, 3x3 in. Wrought Steel Ornamental Loose Pin Butts.
 One No. 479, 4 1/2 in. Wrought Steel Pull.
 One No. 3 Wire Spring.
 One 2 1/2 in. Hook and Eye.

The butts in this set are applied to the surface of the door and casing. The loose pins allow door to be taken off.
 Weight Per Dozen Sets 11 1/2 Pounds.
 One Set in a Box, with Screws.

SCREEN BRACKETS



Wrought Steel

Size 1 1/2 x 1 1/2 in.

Per Dozen Sets

- No. 105 — Japanned \$1.50
 A Set consists of Four Brackets.

One Set in an Envelope, with Screws; One Dozen Envelopes in a Box.



Cast Iron

Size 2 1/4 x 2 1/4 in.

Per Set

- No. 100 — Tuscan Bronzed,
 Weight Per Box 4 1/4
 Lbs. \$0.45

A Set consists of Four Brackets.
 Ten Sets in a Box, with Screws.

SCREEN DOOR BRACKETS

Cast Iron

Size 3 1/2 x 3 1/2 in.

Per Set

- No. 202 — Tuscan Bronzed, Weight Per Box 7 3/4 Lbs. \$1.00
 A Set consists of Four Corner Brackets and Two Center Pieces.

Five Sets in a Box, with Screws.

SCREEN DOOR BRACES



Brass Plated Rod, Japanned Clips

Per Dozen

- No. 532 — 12 in., Weight Per Dozen 2 1/2 Pounds \$1.45
 No. 533 — 18 in., Weight Per Dozen 2 1/2 Pounds 1.50
 One Dozen in a Box, with Screws.

SLIDING WINDOW SCREEN SPRINGS



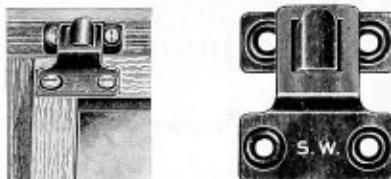
Tempered Steel

For Sliding Window Screens.

Per Gross

- No. 12 — 1/4 x 4 in. \$2.00
 One Gross in a Box.

STORM SASH AND SCREEN HANGERS



Wrought Steel

Width of Hook Plate 2 3/4 in., Length of Eye Plate 3 in.
 For Full Length Screens or Storm Sash.

Per Dozen Sets

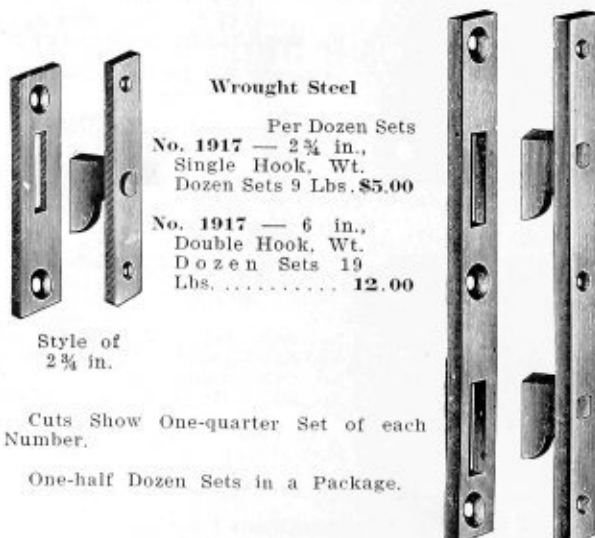
- No. 1724J — Japanned Finish \$1.95
 No. 1724Z — Sherardized Finish 2.40

Set consists of Two Hooks and Two Eyes.

Weight Per Dozen Sets 2 3/4 Pounds.

One Dozen Sets in a Box, with Screws.

SUMMER DOOR HANGERS



Wrought Steel

Per Dozen Sets

- No. 1917 — 2 3/4 in.,
 Single Hook, Wt.
 Dozen Sets 9 Lbs. \$5.00

- No. 1917 — 6 in.,
 Double Hook, Wt.
 Dozen Sets 19
 Lbs. 12.00

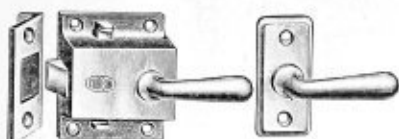
Style of
 2 3/4 in.

Cuts Show One-quarter Set of each
 Number.

One-half Dozen Sets in a Package.

Style of 6 in.

SCREEN DOOR CATCHES



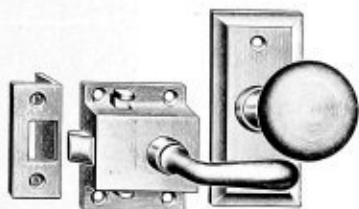
Cast Iron

Catch $2\frac{1}{4} \times 1\frac{1}{8}$ in., for Doors $\frac{7}{8}$ to $1\frac{1}{8}$ in. Thick, Opening Out.

| | Per Dozen |
|--|-----------|
| No. Y3450—Amber Finish | \$5.55 |
| No. R3450—Antique Copper | 6.65 |
| No. EA3450—Dull Brass, Natural Color | 6.65 |

Weight Per Dozen 6 $\frac{3}{4}$ Pounds.

One-half Dozen in a Box, with Screws.



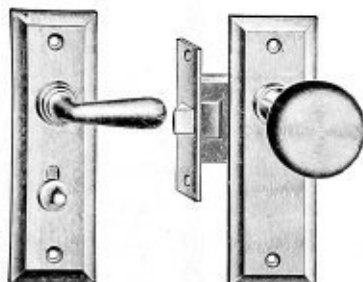
Cast Iron, Wrought Steel Knob and Escutcheon

Catch $2\frac{1}{4} \times 1\frac{1}{8}$ in., Knob $1\frac{1}{4}$ in., Escutcheon $4\frac{3}{4} \times 1\frac{1}{2}$ in., for Doors $\frac{7}{8}$ to $1\frac{1}{8}$ in. Thick, Opening Out.

| | Per Dozen |
|---|-----------|
| No. R03463—Antique Copper | \$10.65 |
| No. EA03463—Dull Brass, Natural Color | 10.65 |

Weight Per Dozen 10 $\frac{1}{2}$ Pounds.

One in a Box, with Screws.



Cast Iron, Wrought Steel Knob and Escutcheons

Per Dozen

| | |
|---|---------|
| No. R03457—Antique Copper, Polished | \$13.35 |
| No. EA03457—Dull Brass, Natural Color | 13.35 |

Weight Per Dozen 11 $\frac{1}{4}$ Pounds.

Cast Bronze, Wrought Bronze Knob and Escutcheon

Per Dozen

| | |
|--|---------|
| No. R02457—Antique Copper, Polished | \$24.00 |
| No. EA02457—Dull Brass, Natural Color | 24.00 |
| No. A02457—Polished Brass | 24.00 |
| No. SKA02457—Sanded Brass, Oxidized and Relieved | 26.65 |

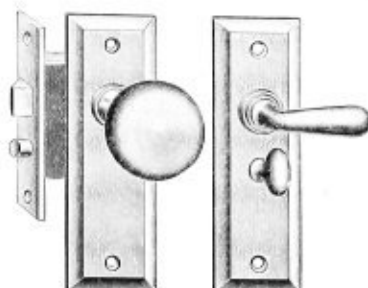
Weight Per Dozen 12 Pounds.

Description— $2 \times 2 \times \frac{1}{2}$ in. Case, $1\frac{1}{2}$ in. Backset, $3\frac{1}{8}$ in. Front, Reversible, $\frac{1}{8}$ in. Hub, $1\frac{1}{4}$ in. Knob, 2 in. Lever, $4\frac{3}{4} \times 1\frac{1}{2}$ in. Escutcheons, for Doors $\frac{7}{8}$ to $1\frac{1}{8}$ in. Thick.

Operated—By Knob from Outside and Lever Inside, Knob and Lever Locked by Slide Stop Inside.

One in a Box, with Screws.

SCREEN DOOR CATCHES



Cast Bronze Front and Bolt, Cast Iron Lever, Wrought Steel Knob and Escutcheon

Per Dozen

| | |
|---|---------|
| No. R03459—Antique Copper, Polished | \$22.65 |
| No. EA03459—Dull Brass, Natural Color | 22.65 |

Weight Per Dozen 11 $\frac{1}{2}$ Pounds.

Cast Bronze Front and Bolt, Cast Bronze Lever, Wrought Bronze Knob and Escutcheon

Per Dozen

| | |
|---|---------|
| No. R02459—Antique Copper, Polished | \$26.65 |
| No. EA02459—Dull Brass, Natural Color | 26.65 |

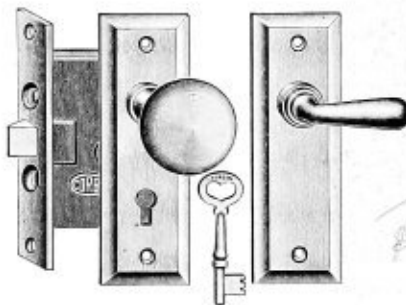
Weight Per Dozen 12 Pounds.

Description— $2 \times 1\frac{3}{4} \times \frac{1}{2}$ in. Case, $1\frac{1}{4}$ in. Backset, $3\frac{1}{4} \times 1\frac{1}{2}$ in. Front, Reversible, $\frac{1}{8}$ in. Hub, $1\frac{1}{4}$ in. Knob, 2 in. Lever, $4\frac{3}{4} \times 1\frac{1}{2}$ in. Escutcheons, for Doors $\frac{7}{8}$ to $1\frac{1}{8}$ in. Thick.

Operated—Latch Bolt by Knob from Outside and Lever Inside, Dead Bolt by Thumb Knob from Inside.

One in a Box, with Screws.

SCREEN DOOR LOCKS



Cast Bronze, Wrought Bronze Knob and Escutcheons

Per Dozen

| | |
|---|---------|
| No. R02455 $\frac{1}{2}$ —Antique Copper, Polished | \$40.00 |
| No. EA02455 $\frac{1}{2}$ —Dull Brass, Natural Color | 40.00 |
| No. SKA02455 $\frac{1}{2}$ —Sanded Brass, Oxidized and Relieved | 42.65 |

Description— $3 \times 2\frac{1}{4} \times \frac{1}{2}$ in. Case, $1\frac{1}{2}$ in. Backset, $4\frac{3}{4} \times 1\frac{1}{2}$ in. Front, Reversible, $\frac{1}{8}$ in. Hub, $1\frac{1}{4}$ in. Knob, $4\frac{3}{4} \times 1\frac{1}{2}$ in. Escutcheons, 2 Nickel Plated Steel Keys, for Doors $\frac{7}{8}$ to $1\frac{1}{8}$ in. Thick.

Operated—By Knob from Outside and Lever Inside, and by Key from Outside at All Times. Outside Knob May be Locked by Stop in Face of Lock.

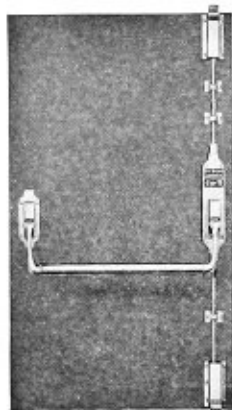
Weight Per Dozen 14 $\frac{1}{4}$ Pounds.

One in a Box, with Screws.

VON DUPRIN SELF-RELEASING EXIT DEVICES

TYPE B

For exit doors from auditoriums, schools, factories, or any building where people gather in large numbers. They permit of ready exit at all times by pressure either up or down on the cross bar. All parts are solid brass or bronze.



No. 1127—Inside View.



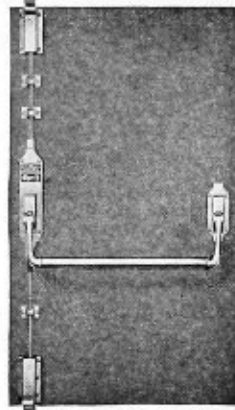
No. 1127—Edge of Door.



No. 1123.
Knob and
Escutcheon.



No. 1123—Edge of Door.



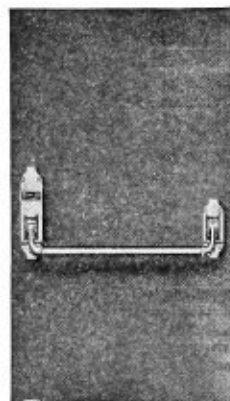
No. 1123—Inside View.

Furnished in Polished Brass or Polished Bronze Finishes
Each

No. 1127—For Standing Door of Double Entrance Doors, or Both Doors of Exit Doors, No Outside Hardware, Shipping Weight Per Set 28 Lbs. . . . \$35.00

Furnished in Polished Brass or Polished Bronze Finishes
Each

No. 1123—For Active Door of Double Entrance Doors, Has Knob and Escutcheons on Outside and Cylinder Lock Control, Shipping Weight Per Set 29 Lbs. . . . \$43.70



No. 1724.
Inside View.



Nos. 1724 and 1124.
Edge of Door.



Nos. 1722 and 1122.
Edge of Door.



Nos. 1141 and 1142.
Edge of Door.



No. 1129-R.
Edge of Door.

Furnished in Polished Brass or Polished Bronze Finishes.

| | Each |
|---|---------|
| No. 1724—For Active Door of Double Entrance Doors, Has Grip and Thumb Piece and Cylinder Outside Control, Shipping Weight Per Set 28 Lbs. | \$37.65 |
| No. 1722—For Active Door of Double Entrance Doors, Has Knob and Escutcheon, Cylinder Outside Control, Shipping Weight Per Set 28 Lbs. | 37.65 |
| No. 1124—For Single Entrance Doors, Has Grip and Thumb Piece and Cylinder Outside Control, Shipping Weight Per Set 28 Lbs. | 37.65 |
| No. 1122—For Single Entrance Door, Has Knob and Escutcheon, Cylinder Outside Control, Shipping Weight Per Set 28 Lbs. | 37.65 |
| No. 1141—For Single Entrance Door, No Outside Hardware, Cylinder Outside Control, Shipping Weight Per Set 24 Lbs. | 33.15 |
| No. 1142—For Active Door of Double Entrance Doors, No Outside Hardware, Cylinder Outside Control, Shipping Weight Per Set 24 Lbs. | 33.35 |
| No. 1129-R—For Single Fire Escape Door, No Outside Hardware | 22.80 |

Note—Polished Brass will be sent unless otherwise ordered.

VON DUPRIN SELF-RELEASING EXIT DEVICES

TYPE D

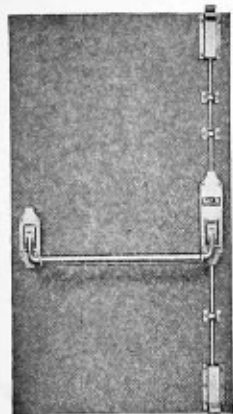
A competitive device, strong and durable and an excellent value for the price.

All parts are solid brass or bronze, and the locks are same as used with Type B Devices.

Operated at all times from inside by pressure against the cross bar.

Furnished in Polished Brass or Polished Bronze Finish

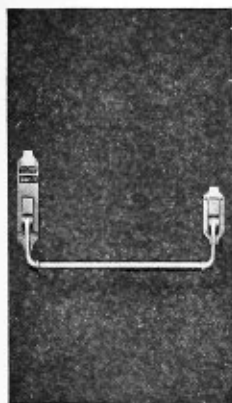
No. 5127—For Standing Door of Double Entrance Doors, or Both Doors of Exit Doors, No Outside Hardware, Shipping Weight Per Set 25 Lbs. **\$26.40** Each



No. 5127—Inside View.



No. 5127—Edge of Door.



No. 5724—Inside View.



No. 5724.
No. 5124.
Edge of Door.



No. 5722.
No. 5122.
Edge of Door.



No. 5141.
No. 5142.
Edge of Door.



No. 5129-R.
Edge of Door.

Furnished in Polished Brass or Polished Bronze Finish

| | Each |
|---|---------|
| No. 5724—For Active Door of Double Entrance Door, has Grip and Thumb Piece and Cylinder Outside Control, Shipping Weight Per Set 25 Lbs. | \$29.65 |
| No. 5722—For Active Door of Double Entrance Door, has Knob and Escutcheon and Cylinder Outside Control, Shipping Weight Per Set 26 Lbs. | 29.65 |
| No. 5124—For Single Entrance Door, has Grip and Thumb Piece and Cylinder Outside Control, Shipping Weight Per Set 25 Lbs. | 29.65 |
| No. 5122—For Single Entrance Door, has Knob and Escutcheon and Cylinder Outside Control, Shipping Weight Per Set 26 Lbs. | 29.65 |
| No. 5141—For Single Entrance Door, No Outside Hardware, Cylinder Outside Control and Night Latch Action, Shipping Weight Per Set 22 Lbs. | 25.35 |
| No. 5142—For Active Door of Double Entrance Door, has No Outside Hardware, Cylinder Outside Control and Night Latch Action, Shipping Weight Per Set 22 Lbs. | 25.55 |
| No. 5129-R—For Single Fire Escape Door, No Outside Hardware | 15.50 |

Note—Polished Brass will be sent unless otherwise ordered.

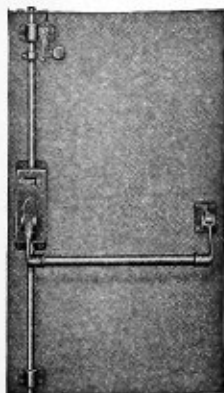
TYPE F

Unpolished Iron, Part Malleable and Grey Iron

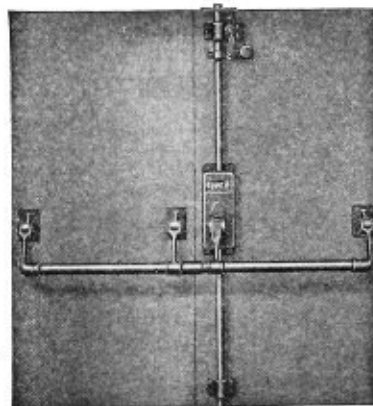
Operated at all times from inside by pressure against the cross bar.

Furnished in Dead Black Finish

| | Each |
|---|---------|
| No. 340—For Inactive Door of Double Entrance Doors, or Both Doors of Exit Doors, No Outside Hardware, Shipping Weight Per Set 34 Lbs. | \$10.50 |
| No. 350—For Double Exit Doors, No Outside Hardware, Shipping Weight Per Set 44 Lbs. | 13.00 |



No. 340—Inside View.



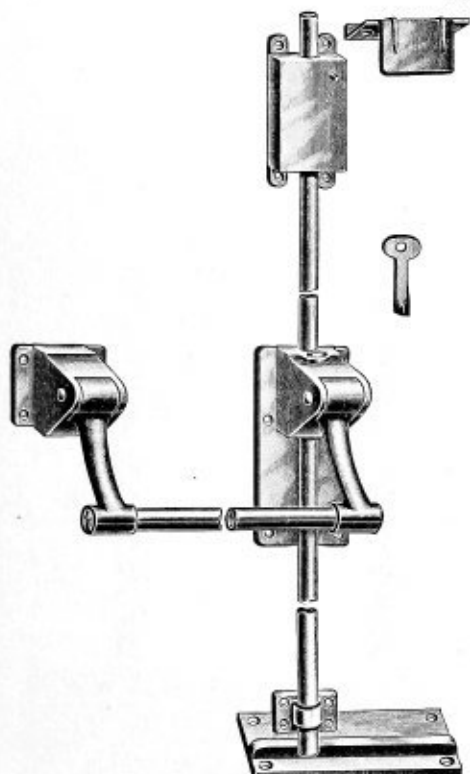
No. 350—Inside View.

CORBIN AUTOMATIC EXIT FIXTURES

These fixtures provide a ready exit at all times, as the doors to which they are applied can always be opened from the inside, even when locked against entrance. They yield to a light pressure, so that a child can operate them with ease.

Originally designed as a preventive of loss of life through panics, their use has become popular upon buildings of all kinds where people congregate, including theaters, schools, churches, office and public buildings, loft buildings and factories. They are applied to doors opening outward. Full instructions accompany each fixture.

EXIT BOLTS, WITH PUSH BAR



All Iron, Reversible

Bolt Rods $\frac{3}{8}$ in. Diameter, Horizontal Bar $\frac{3}{4}$ in. Tubing, Brackets $2\frac{1}{2} \times 5\frac{1}{2}$ in. and $2\frac{1}{2} \times 2\frac{1}{2}$ in., Top Box $2\frac{3}{8} \times 5\frac{1}{4}$ in., Top Strike with Return for Stop $\frac{1}{2}$ in. Thick.

For Doors 8 ft. 6 in. High x 3 ft. Wide, Height of Bar from Floor 38 in. Requires Stile at Least $3\frac{1}{2}$ in. Wide.

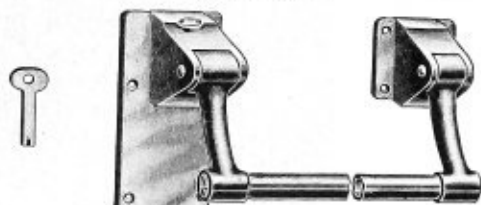
No. G03357—Electro-Galvanized Each \$16.10

Operation—Pressure on the horizontal bar automatically retracts bolts at top and bottom, in which position they are held as long as the door is open. When the door closes, the bolts are automatically projected into the strikes, except when they are locked in retracted position by means of the key.

Note—These bolts can be fitted to a door of any height under 8 ft. 6 in. x 3 ft. by sawing off the end of the top bolt and horizontal bar to the required length.

Weight Each 14 Pounds.

PUSH BARS

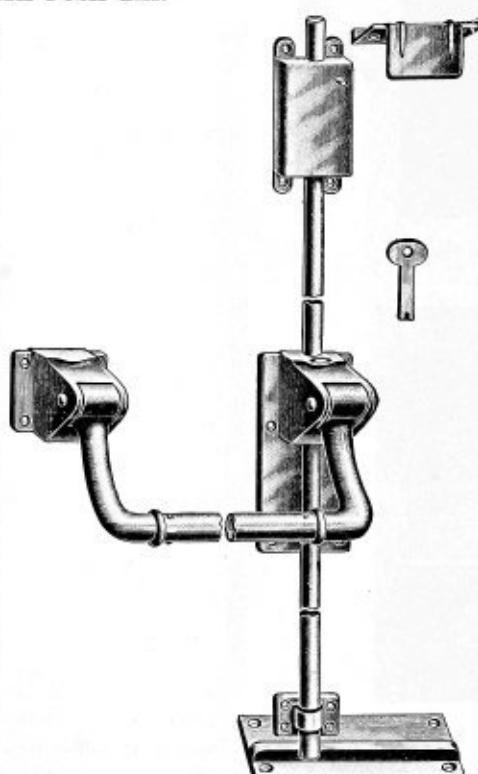


All Iron, Reversible

Same Bar as Used on Above Bolt.

No. G03357 $\frac{1}{2}$ —Electro-Galvanized Each \$13.35

Weight Each 7 Pounds.



All Iron, Not Reversible

Bolt Rods $\frac{3}{8}$ in. Diameter, Horizontal Bar 1 in. Tubing, Brackets $2\frac{1}{2} \times 5\frac{1}{2}$ in. and $2\frac{1}{2} \times 2\frac{1}{2}$ in., Top Box $2\frac{3}{8} \times 5\frac{1}{4}$ in., Top Strike with Return for Stop $\frac{1}{2}$ in. Thick.

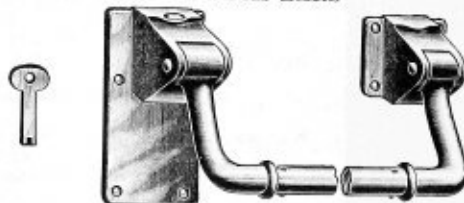
No. G03352—Electro-Galvanized Each \$16.10

Operation—Pressure on the horizontal bar automatically retracts bolt at top and bottom, in which position they are held as long as the door is open. When the door closes, the bolts are automatically projected into the strikes, except when they are locked in retracted position by means of the key.

Note—In ordering, give hand of door, height of door between threshold and stop, width of door between stops, width of stile, and thickness of stops.

Weight Each 14 Pounds.

PUSH BARS



All Iron, Not Reversible

Same Bar as Used on Above Bolt.

No. G03352 $\frac{1}{2}$ —Electro-Galvanized Each \$13.35

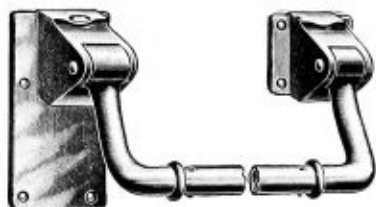
In ordering, give hand of door, width of door between stops, width of stile and thickness of stops.

Weight Each 7 Pounds.

CORBIN AUTOMATIC EXIT FIXTURES

SETS FOR SINGLE DOORS

Complete with Lock or Latch



Nos. 03352½ and 02352½ Exit Bar for Inside.



No. 75282 Handle for Outside. Nos. 1519½ PY Knob and 4440¼ PY Escutcheon for Outside.



Outside View Showing No. 75282 Handle.

WITH SECTIONAL HANDLE OUTSIDE

Operated—From Inside by Slight Pressure on Bar, from Outside by Key and Sectional Handle. Per Set

No. B33386—Lock No. 1386, Cast Bronze Front and Bolts, No. 03352½ Exit Bar, All Iron Dead Black Finish, No. 75282 Sectional Handle Cast Bronze, Polished, Weight Per Set 13 Lbs. \$40.75

No. B42386—Lock No. 1386, Cast Bronze Front and Bolts, No. 02352½ Exit Bar All Bronze, No. 36884 Sectional Handle Cast Bronze, Polished, Weight Per Set 13 Lbs. 46.75

WITH KNOB AND ESCUTCHEON OUTSIDE

Operated—From Inside by Slight Pressure on Bar, from Outside by Key and Knob. Per Set

No. B33387—Lock No. 1387, Cast Bronze Front and Bolts, No. 03352½ Exit Bar All Iron, Dead Black Finish, No. 1519½ PY Knob and No. 4440¼ PY Escutcheon, Cast Bronze, Polished, Weight Per Set 12¾ Lbs. \$40.60

No. B42387—Lock No. 1387, Cast Bronze Front and Bolts, No. 02352½ Exit Bar All Bronze, No. 1519½ PY Knob and No. 74029½ PY Escutcheon, Cast Bronze, Polished, Weight Per Set 12¾ Lbs. 46.60



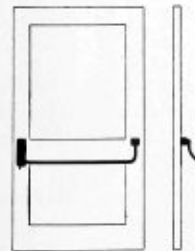
Outside View Showing Knob and Escutcheon.

WITHOUT OUTSIDE TRIM

Operated—From Inside by Slight Pressure on Bar, No Trim on Outside. Per Set

No. B33376—Latch No. 0176, Cast Bronze Front and Bolt, No. 03352½ Exit Bar All Iron Dead Black Finish, Weight Per Set 8½ Lbs. \$20.50

Note—All above furnished in any prevailing finish. Extra charge for Special Finishes.



Inside View Showing No. 03352½ Type Exit Bar.

EXIT BAR

Horizontal Bar 1 in. Tubing, Brackets 2¾x5½ in. and 2¾x2½ in. Requires stile at least 4½ in. wide. Pressure on the horizontal bar automatically retracts the latch bolt of the lock, allowing the door to be opened at all times from the inside. The latch bolt can be held in retracted position by means of the key.

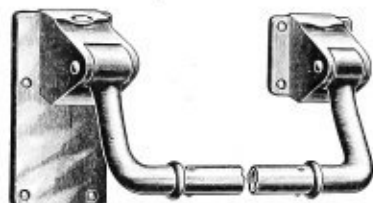
Not Reversible. In ordering, give Hand of Door, Width of Door between stops, Width of Stile and Thickness of Stop, also Thickness of Door.

Packed with Screws.

CORBIN AUTOMATIC EXIT FIXTURES

SETS FOR PAIR OF DOORS

Complete with Lock or Latch



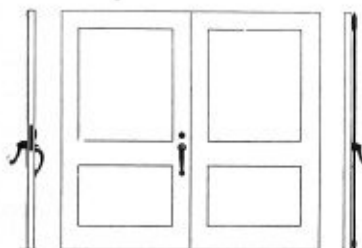
Nos. 03352½ and 02352½ Exit Bar for Inside.



No. 75282 Handle for Outside.



Nos. 1519½ PY Knob and 4440¼ PY Escutcheon for Outside.



Outside View Showing No. 75282 Handle.

WITH SECTIONAL HANDLE OUTSIDE

Operated—From Inside by Slight Pressure on Bar, from Outside by Key and Sectional Handle.

- No. **B33486**—Lock No. 1386, Cast Bronze Front and Bolts, No. 03352½ Exit Bar All Iron, Dead Black Finish, No. 75282 Sectional Handle Cast Bronze, Polished, Weight Per Set 27 Lbs. **\$60.10** Per Set
- No. **B42486**—Lock No. 1386, Cast Bronze Front and Bolt, No. 02352½ Exit Bar All Bronze, No. 75282 Sectional Handle Cast Bronze, Polished, Weight Per Set 27 Lbs. **\$5.10**

WITH KNOB AND ESCUTCHEON OUTSIDE

Operated—From Inside by Slight Pressure on Bar, from Outside by Key and Knob.

- No. **B33487**—Lock No. 1387, Cast Bronze Front and Bolts, No. 03352½ Exit Bar All Iron, Dead Black Finish, No. 1519½ PY Knob and No. 74029½ PY Escutcheon, Cast Bronze, Polished, Wt. Per Set 26½ Lbs. **\$59.95** Per Set
- No. **B42487**—Lock No. 1387, Cast Bronze Front and Bolt, No. 02352½ Exit Bar All Bronze, No. 1519½ PY Knob and No. 74029½ PY Escutcheon, Cast Bronze, Polished, Weight Per Set 26½ Lbs. **\$4.90**



Outside View Showing Knob and Escutcheon.

WITHOUT OUTSIDE TRIM

Operated—From Inside by Slight Pressure on Bar, No Trim on Outside.

- No. **B33476**—Latch No. 0176, Cast Bronze Front and Bolt, No. 03352½ Exit Bar All Iron, Dead Black Finish, Weight Per Set 22½ Lbs. **\$39.80** Per Set

Note—All above furnished in any prevailing finish. Extra charge for Special Finishes.



Inside View Showing No. 03352½ Type Exit Bar.

EXIT BAR

Horizontal Bar 1 in. Tubing, Brackets 2¾x5½ in. and 2¾x2½ in. require Stiles at least 4½ in. wide. Pressure on the horizontal bar automatically retracts the latch bolt of the lock, allowing the door to be opened at all times from the inside. The latch bolt can be held in retracted position by means of the key.

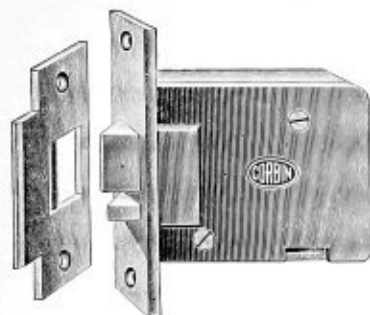
Not Reversible. In ordering, give Hand of Door, Width of Door between Stops, Width of Stile and Thickness of Stop, also Thickness of Door.

These Sets are regularly furnished with open back strike, which allows the doors to open and close independently of each other.

Packed with Screws.

MORTISE EXIT DOOR LATCHES

FOR CORBIN AUTOMATIC EXIT FIXTURES



No. 0176.

| | | |
|-----|---|--------|
| No. | B0176—Polished Bronze | Each |
| No. | EA0176—Dull Brass, Natural Color | \$4.50 |
| No. | A0176—Polished Brass | 4.50 |
| No. | SKA0176—Sanded Brass, Oxidized and Relieved | 4.70 |

Description— $3\frac{3}{8} \times 3 \times \frac{5}{8}$ in. Japanned Iron Case, Strike Lip to Center $1\frac{1}{2}$ in., Backset $2\frac{3}{4}$ in., Cast Bronze Front $5 \times 1\frac{1}{8}$ in., Cast Bronze Bolts, Easy Spring Latch Bolt, Reversible.

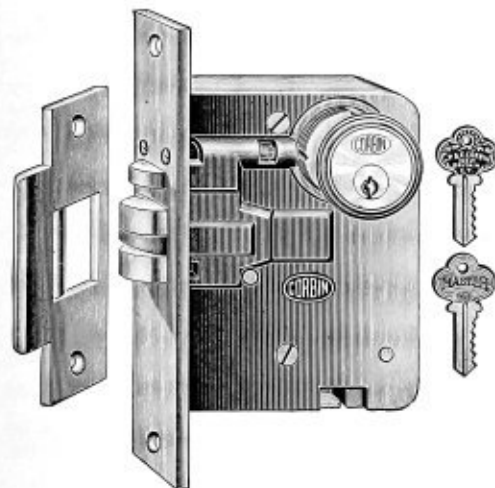
Operated—By Exit Bar Push Lever from the Inside Only, at All Times, Auxiliary Latch Automatically Locks Latch Bolt, so that it Cannot be Forced Back when the Door is Closed, but Does Not Prevent Exit Bar from Operating Latch Bolt.

Weight Each $1\frac{1}{2}$ Pounds.

One in a Box, with Screws.

MORTISE EXIT DOOR LOCKS

CORBIN BALL BEARING CYLINDER FOR ENTRANCE DOORS OPENING OUT



No. 1386.

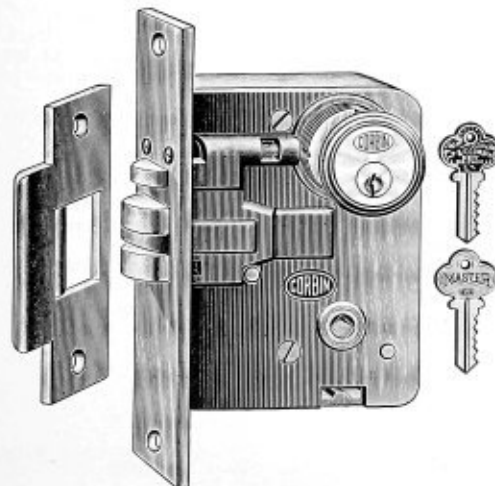
| | | |
|-----|---|---------|
| No. | B1386—Polished Bronze | Each |
| No. | EA1386—Dull Brass, Natural Color | \$20.80 |
| No. | A1386—Polished Brass | 20.80 |
| No. | SKA1386—Sanded Brass, Oxidized and Relieved | 21.00 |

Description— $5\frac{3}{8} \times 4\frac{1}{8} \times \frac{3}{4}$ in. Japanned Iron Case, Strike Lip to Center $1\frac{1}{2}$ in., Backset $2\frac{3}{4}$ in., Cast Bronze Front $7\frac{3}{4} \times 1\frac{1}{4}$ in., Cast Bronze Bolts, Anti-friction Latch Bolt, Not Reversible, 2 Cast Bronze Cylinders, 3 Nickel Silver Keys, Changes Unlimited.

Operated—By Exit Bar or Push Lever from the Inside at All Times, and by Thumb Piece from the Outside. Outside Thumb Piece May be Set by Turn of Key in Inside Cylinder, when so Locked Against Thumb Latch Outside, Entrance May be Had by Turning Key in Outside Cylinders, which Retracts the Latch Bolt, but Does Not Release the Thumb Latch. Auxiliary Latch Automatically Locks Latch Bolt, so that it Cannot be Forced Back when the Door is Closed, but Does Not Prevent Key Exit Bar or Thumb Piece from Operating Latch Bolt.

Weight Each 4 $\frac{3}{4}$ Pounds.

One in a Box, with Screws.



No. 1387.

| | | |
|-----|---|---------|
| No. | B1387—Polished Bronze | Each |
| No. | EA1387—Dull Brass, Natural Color | \$20.80 |
| No. | A1387—Polished Brass | 20.80 |
| No. | SKA1387—Sanded Brass, Oxidized and Relieved | 21.00 |

Description— $5\frac{3}{8} \times 4\frac{1}{8} \times \frac{3}{4}$ in. Japanned Iron Case, Strike Lip to Center $1\frac{1}{2}$ in., Backset $2\frac{3}{4}$ in., Cast Bronze Front $7\frac{3}{4} \times 1\frac{1}{4}$ in., Cast Bronze Bolts, Anti-friction Latch Bolt, Hub $\frac{1}{8}$ in., Not Reversible, 2 Cast Bronze Cylinders, 3 Nickel Silver Keys, Changes Unlimited.

Operated—By Exit Bar or Push Lever from the Inside at All Times, and by Knob from the Outside. Outside Knob May be Set by Turn of Key in Inside Cylinder, when so Locked Against Knob Outside, Entrance May be Had by Turning Key in Outside Cylinder, which Extracts the Latch Bolt, but Does Not Release the Knob. Auxiliary Latch Automatically Locks Latch Bolt, so that it Cannot be Forced Back when the Door is Closed, but Does Not Prevent Key, Exit Bar or Knob from Operating Latch Bolt.

Weight Each 4 $\frac{3}{4}$ Pounds.

One in a Box, with Screws.

Note—When Ordering, State Hand and Thickness of Door. State whether for Single or Double Doors.

DOOR HOLDERS

ARISTOCRAT



Cast Bronze, Polished

- Each
No. 01—For Doors 24, 26 or 28 in. Wide.....\$10.00
No. 02—For Doors 30 in. Wide and Over..... 10.00

The Aristocrat Overhead Door Holder can be installed to hold door open at 90 or 125 degrees. A positive lock in the discs holds the door securely open under any condition. A shock absorber eliminates the shock and strain on the hinges. When not in use, by placing the locking handle in a neutral position the device will operate freely as the door opens and closes. Can be used on either right or left hand door.

Note—Brushed or Sand Blast Finishes furnished at same price. Special Plated Finishes 10% extra.

Two in a Carton.

HERCULES

Cast Bronze, Polished,
Rubber Tip

- Each
No. 4—4 in. High.....\$2.00
No. 5—5 in. High..... 2.00

Easily operated, merely push the arm down or raise it with the foot. Only the tough corrugated rubber foot comes in contact with the floor. Will not mar or mark the finest floor.

Note—Brushed or Sand Blast Finishes at same price. Special Plated Finishes 10% extra.

Six in a Carton.

CORBIN

Cast Iron, Rubber Tip
7 1/4 x 2 1/2 in., 1 1/2 in. Throw

- No. Each
B3860—Bronze Plated...\$1.55
R3860—Antique Copper... 1.55
EA3860—Dull Brass..... 1.55
SKA3860—Sanded Brass,
Oxidized and Relieved.... 1.65

Cast Bronze, Rubber Tip
7 1/4 x 2 1/2 in., 1 1/2 in. Throw

- No. Each
R2860—Polished Bronze...\$4.00
R2860—Antique Copper,
polished..... 4.00
EA2860—Dull Brass, Natural
Color..... 4.00
A2860—Polished Brass.... 4.00
F2860—Genuine Rustless
Iron..... 3.00
Weight Per Dozen 9 1/2 Pounds.

Three in a Box, with Screws.

CALDWELL "JUNIOR"

Size 5 x 1 in.

Gray Iron

- No. 301 —Amber Bronze.....\$3.00
No. 303 —Polished Bronze..... 5.50
No. 303 1/2 —Antique Copper, Polished..... 5.50
No. 303B —Dull Brass..... 5.50

Cast Bronze

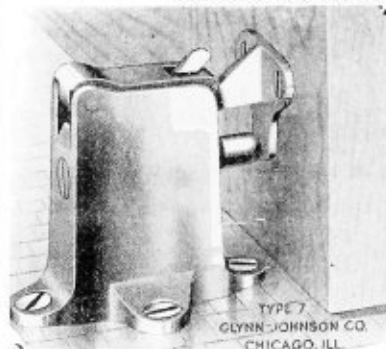
- No. 304—Polished Bronze..... 8.00
No. 304—Dull Brass..... 8.00

Weight Per Dozen 5 Pounds.

One Dozen in a Box, with Screws.

DOOR STOPS AND HOLDERS

RAWLINGS AUTOMATIC



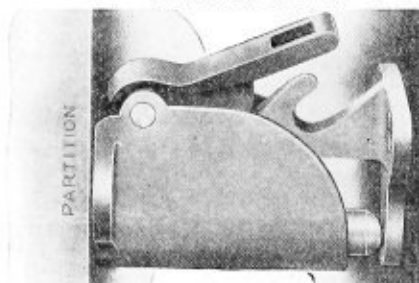
Rawlings Automatic Door Holders hold the door open absolutely secure and noiseless under all conditions. They engage the door automatically and release by quickly pushing the door backwards against the holder. The automatic plunger takes up all the lost motion and prevents rattles.

Floor Type, Cast Bronze, Polished

| Nos. | *SF1 | SF2 | *F5 | F6 | F7 |
|---------------------|--------|-------|-------|-------|-------|
| Height, Inches | 1 1/2 | 2 1/2 | 2 | 3 | 3 1/2 |
| Width, Inches | 2 1/2 | 2 5/8 | 2 7/8 | 3 | 2 7/8 |
| Length, Inches | 2 5/8 | 3 3/8 | 3 1/2 | 4 1/2 | 4 1/2 |
| Points of Anchorage | 2 | 3 | 2 | 3 | 4 |
| Each | \$2.50 | 3.50 | 3.00 | 4.00 | 5.00 |

*Nos. SF1 and F5 require base mounting blocks. Brushed or Sand Blast Finishes furnished at same price. Special Plated Finishes 10% extra.

No. SF1, Eight; Nos. SF2, F5 and F6, Six; No. F7, Four in a Carton.



Wall Type, Cast Bronze, Polished

- Each
No. W1—1 1/2 in. High, 2 1/4 in. Wide, 2 3/4 in. Long, 2
Point Anchorage.....\$2.50
No. W2—1 1/2 in. High, 2 3/4 in. Wide, 3 1/2 in. Long
2 Point Anchorage..... 3.00
Brushed or Sand Blast Finishes furnished at same price.
Special Plated Finishes 10% extra.

No. W1, Eight; No. W2, Six in a Carton.

CORBIN

Cast Bronze, Rubber Tip
Height 3 1/4 in.
With Wood Screws

- No. Each
A0370—Polished Brass...\$3.65
Weight Each 1 1/4 Pounds.
With Expansion Bolt
A0370 1/2—Polished Brass, 4.00
Weight Each 1 1/2 Pounds.
Six in a Box.

Cast Bronze, Rubber Tip
3 3/4 in. Projection.
With Wood Screws

- Each
No. A0369—Polished
Brass.....\$3.10
Weight Each 1 Pound.

With Expansion Bolt

- No. A0369—Polished Brass..... 3.45
Weight Each 1 1/4 Pound.
Six in a Box.



Type of Expansion Bolt Used with Door Stops where specified.

DOOR STOPS AND HOLDERS



Cast Iron, Wrought Steel Holder

2 5/8 in. Projection.

Per Dozen

- No. B0361 1/2—Bronze Plated \$ 4.25
 No. R0361 1/4—Antique Copper 4.25

Weight Per Dozen 2 1/4 Pounds.

Cast Bronze, Wrought Bronze Holder

2 5/8 in. Projection.

- No. A361 1/2—Polished Brass 10.65
 Weight Per Dozen 4 Pounds.

One Dozen in a Box, with Screws.



Cast Bronze, Wrought Bronze Holder

Height 1 1/8 in.

Per Dozen

- No. A361 — Polished
 Brass \$14.00

Weight Per Dozen 4 3/4 Pounds.

One Dozen in a Box, With Screws.

DOOR STOPS



Cast Iron, Rubber Tip

3 1/4 in. Projection.

Per Dozen

- No. R0365—Antique Copper \$2.40
 No. EA0365—Dull Brass 2.40
 No. SKA0365—Sanded Brass, Oxidized and Relieved 2.65
 No. E0365—Nickel Plated 2.65

Cast Bronze, Rubber Tip

3 1/4 in. Projection.

Per Dozen

- No. EA365—Dull Brass, Natural Color \$8.90
 No. SKA365—Sanded Brass, Oxidized and Relieved 9.75
 No. E365—Nickel Plated, Polished 9.75

Weight Per Dozen 4 Pounds.

One-half Dozen in a Box.



Cast Iron, Rubber Tip

2 5/8 in. Projection.

Per Dozen

- No. R362—Antique Copper \$1.05
 No. EA362—Dull Brass 1.05
 No. SKA362—Sanded Brass, Oxidized and Relieved 1.20

Weight Per Dozen 1 1/4 Pounds.

One Dozen in a Box.



Wrought Steel, Rubber Tip

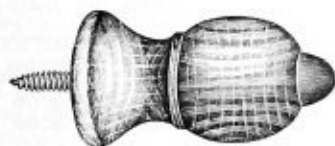
3 in. Projection.

Per 100

- No. 3410B—Antique Copper \$12.25
 No. 3410C—Dull Brass, Natural Color 12.25
 No. 3410SK—Sanded Brass, Antique Light 13.75
 No. 3410N—Nickel Plated 13.75

Weight Per Box 1 1/2 Pounds.

Ten in a Box.



Natural Wood, Rubber Tip, Iron Screw

2 1/2 in. Projection.

Per Dozen

- No. 111—Maple, Common Polish \$0.60
 Weight Per Dozen 1 1/4 Pounds.

Three Dozen in a Box.

DOOR STOPS



Cast Bronze, Rubber Tip

3 3/4 in. Projection.

With Wood Screws

Each

- No. EA369—Dull Brass, Natural Color \$1.65
 Weight Each 3/4 Pound.

With Expansion Bolt

Each

- No. EA369 1/2—Dull Brass, Natural Color 2.00
 Weight Each 3/4 Pound.

Six in a Box.



Cast Bronze, Rubber Tip

Height 3 1/4 in.

With Wood Screws

Each

- No. EA370—Dull Brass, Natural Color \$1.45
 Weight Each 1 Pound.

With Expansion Bolt

- No. EA370 1/2—Dull Brass, Natural Color 1.75
 Weight Each 1 1/4 Pounds.

Six in a Box.



Type of Expansion Bolt furnished with Door Stops where specified.



Cast Iron, Rubber Tip

Height 2 3/8 in.

Per Dozen

- No. EA0366—Dull Brass \$12.00
 Weight Per Dozen 4 Pounds.

Cast Bronze, Rubber Tip

Height 2 3/8 in.

- No. A366—Polished Brass 20.00
 No. EA366—Dull Brass, Natural Color 20.00

Weight Per Dozen 4 1/4 Pounds.

One-half Dozen in a Box.



Cast Iron, Rubber Tip

Height 1 3/8 in.

Per 100

- No. 7610C—Dull Brass \$12.25
 No. 7610N—Nickel Plated, Planished 13.75

Cast Bronze, Rubber Tip

Height 2 3/8 in.

- No. 7615C—Dull Brass, Natural Color 40.00
 No. 7615N—Nickel Plated, Polished 43.20

Weight Per Box 1 Pound.

Ten in a Box, with Screws.



Wrought Bronze, Rubber Tip

Height 1 3/4 in. Per 100

- No. 3615B—Antique Copper, Polished \$32.00
 No. 3615C—Dull Brass 32.00

- No. 3615SK—Sanded Brass, Antique Light 35.00
 No. 3615N—Nickel Plated, Polished 35.00

Weight Per Box 1 1/2 Pounds.

Ten in a Box, with Screws.



Wood, Rubber Ring

Per Dozen

- No. 134—Height 1 1/4 in. \$1.50

Weight Per Dozen 3/4 Pound.

Three Dozen in a Box.

CREMONE BOLTS

FOR SASH OR DOORS OPENING IN OR OUT

Strike for Sash or
Doors Opening In.Strike for Sash or
Doors Opening Out.

Both the Above Strikes Furnished with Bolts.

Cast Bronze, Polished, with Wrought Bronze
Rod and Guides1½ in. Case and Guides, ½ in. Half Round
Rod.Each
No. EA1991—Dull Brass, Natural Col-
or\$11.10Note—In ordering, state height of sash or
door and distance from bottom to center of
knob.Stock size for doors is 8 ft. 6 in., with knob
3 ft. 6 in. from bottom. This size will be fur-
nished unless otherwise specified.Weight Each, 8½ ft. Long, 6¼ Pounds.
One in a Package.Strike for Sash or
Doors Opening In.Strike for Sash or
Doors Opening Out.

Both the Above Strikes Furnished with Bolts.

Cast Bronze, Polished, with Wrought Bronze
Rod1½ in. Case and Guides, ½ in. Half Round
Rod.Each
No. EA1991½—Dull Brass, Natural Col-
or\$11.10Note—In ordering, state height of sash or
door and distance from bottom to lever handle,
and if for a Right or Left hand door.Stock sizes for doors is 8 ft. 6 in., with lever
handle 3 ft. 6 in. from the bottom. This size
will be furnished unless otherwise specified.Weight Each, 8½ ft. Long, 6¼ Pounds.
One in a Package.

SURFACE DOOR BOLTS

No. 3578—Wrought Steel

Guides 1½ in. Wide, Half Round Rod ¾ in.
Wide.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | |
|-------------------|-------------------|----------------------|-----------------------|
| | | R and EA Finishes | SKA and E Finishes |
| 4 | 2¼ | \$3.20 | \$3.55 |
| 6 | 2¾ | 3.45 | 3.80 |
| 9 | 3¼ | 3.90 | 4.20 |
| 12 | 3¾ | 4.65 | 5.00 |

No. 1578—Wrought Bronze

Guides 1½ in. Wide, Half Round Rod ¾ in.
Wide.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | |
|-------------------|-------------------|----------------------|-----------------------|
| | | R and EA Finishes | SKA and E Finishes |
| 4 | 2¼ | \$6.20 | \$6.90 |
| 6 | 2¾ | 7.20 | 7.80 |
| 9 | 3½ | 9.35 | 10.20 |
| 12 | 4 | 10.65 | 12.80 |

12 in., One-half Dozen; Others, One Dozen in a
Box, with Screws.

SURFACE DOOR BOLTS

No. 3580½—Wrought Steel

Guides 1½ in. Wide, Half Round Rod, ½
in. Wide.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | |
|-------------------|-------------------|----------------------|-----------------------|
| | | R and EA Finishes | SKA and E Finishes |
| 6 | 5 | \$3.55 | \$3.90 |
| 9 | 6¼ | 4.20 | 4.65 |
| 12 | 7¼ | 4.90 | 5.45 |
| 18 | 9¼ | 6.20 | 6.90 |

No. 1580½—Wrought Bronze

Guides 1½ in. Wide, Half Round Rod ½
in. Wide.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | |
|-------------------|-------------------|----------------------|-----------------------|
| | | R and EA Finishes | SKA and E Finishes |
| 6 | 5¾ | \$9.80 | \$10.80 |
| 9 | 6¾ | 12.45 | 13.65 |
| 12 | 8 | 14.20 | 15.65 |
| 18 | 10¾ | 16.00 | 17.55 |

One-third Dozen in a Box, with Screws.

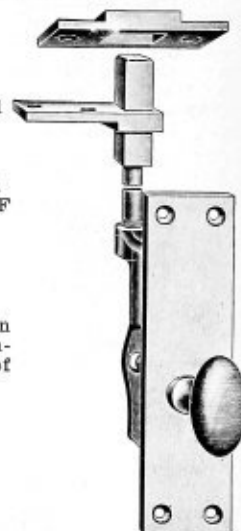


EXTENSION FLUSH BOLTS

No. 2853—Cast Bronze, Polished

6x1½ in. Plate.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | |
|-------------------|-------------------|----------------------------|--|
| | | B, R, EA, A, F Finishes | |
| 8 | 14¼ | \$2.00 | |
| 12 | 15 | 2.00 | |
| 18 | 16¼ | 2.00 | |

Note—The length of extension
flush bolts is measured from center
of operating member to end of
bolt head when retracted.One-sixth Dozen in a Box, with
Screws.

No. 12659—Cast Iron, Bronze Lever

5½x½ in. Plate.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | |
|-------------------|-------------------|----------------------|---------------|
| | | R and EA Finishes | SKA Finish |
| 6 | 6 | \$1.85 | \$2.15 |
| 8 | 6¼ | 1.85 | 2.15 |
| 12 | 6¾ | 1.85 | 2.15 |

No. 2659—Cast Bronze, Polished

5½x½ in. Plate.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | |
|-------------------|-------------------|----------------------|---------------|
| | | R and EA Finishes | SKA Finish |
| 6 | 6 | \$2.00 | \$2.20 |
| 8 | 6¼ | 2.00 | 2.20 |
| 12 | 6¾ | 2.00 | 2.20 |

Note—The length of extension flush bolts
is measured from center of operating member
to end of bolt head when retracted.

One-half Dozen in a Box, with Screws.



EXTENSION FLUSH BOLTS



No. 12859—Cast Iron, Bronze Lever

6 3/4 x 1 1/4 in. Plate.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | | |
|-------------------|-------------------|-------------|------|--------|
| | | B, R, EA, A | SKA | Finish |
| 8 | 12 3/4 | \$1.85 | 2.15 | |
| 12 | 13 1/2 | 1.85 | 2.15 | |
| 18 | 14 3/4 | 1.85 | 2.15 | |

No. 2859—Cast Bronze, Polished

6 3/4 x 1 1/4 in. Plate.

| Length, Inches | Wt. Doz., Lbs. | Per Dozen | | |
|-------------------|-------------------|----------------|--------|--------|
| | | B, R, EA, A, F | SKA, E | Finish |
| 8 | 12 3/4 | \$2.00 | 2.20 | |
| 12 | 13 1/2 | 2.00 | 2.20 | |
| 18 | 14 3/4 | 2.00 | 2.20 | |

Note—The Length of Extension Flush Bolts is measured from Center of Operating Member to End of Bolt Head when retracted.

One-sixth Dozen in a Box, with Screws.

CABINET BOLTS



Cast Brass, Polished

| Nos. | Size, Inches | Wt. Dozen, Lbs. | Per Dozen |
|------|-----------------|--------------------|--------------|
| 124 | 1 1/4 x 1 3/4 | 1 1/4 | \$8.00 |
| 125 | 1 1/2 x 2 | 1 1/2 | 10.40 |

Three Dozen in a Box, with Screws.

FLUSH BOLTS

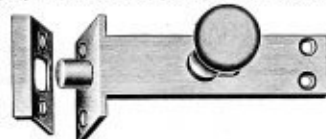


No. 133—Cast Bronze, Polished

Width 3/4 in.

| Length, Inches | Wt. Dozen, Lbs. | Per Dozen | | |
|-------------------|--------------------|-----------|-------|--------|
| | | B, EA, A | E | Finish |
| 8 | 2 3/4 | \$9.60 | 11.20 | |
| 4 | 2 3/4 | 10.40 | 12.00 | |

One Dozen in a Box, with Screws.



Cast Bronze, Polished

Size 1x4 in.

| Nos. | Size | Wt. Dozen, Lbs. | Per Dozen |
|---------------|----------------|-----------------|-----------|
| No. A1399 1/2 | Polished Brass | 26.65 | |

Weight Per Dozen 3 3/4 Pounds.

One-half Dozen in a Box, with Screws.



Wrought Brass, Polished Steel Bolt

Width 1/2 in.

No. A98—Polished Brass

| Length, Inches | Wt. Dozen, Lbs. | Per Dozen |
|------------------------|-----------------|-----------|
| 3 | 4 | |
| Weight Per Dozen, Lbs. | 11 | 7/8 |
| Per Dozen | \$2.75 | 4.80 |

No. 82—3/8 x 2 in., Polished Brass.....\$2.40

Weight Per Dozen 1/2 Pounds.

Three Dozen in a Box, with Screws.

FLUSH BOLTS



No. A109—Wrought Brass, Polished, Steel Bolt

Width 3/4 in.

| Length, Inches | Wt. Dozen, Lbs. | Per Dozen |
|------------------------|-----------------|-----------|
| 4 | 6 | |
| Weight Per Dozen, Lbs. | 1 3/4 | 2 1/2 |
| Per Dozen | \$7.20 | 9.60 |

One Dozen in a Box, with Screws.

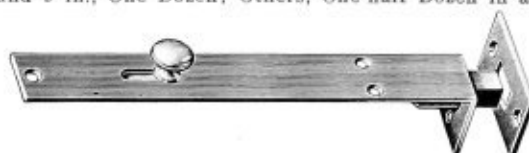


No. 1026—Wrought Steel, Bright

Width 1 in., Lip Extension 1 3/8 in., 3/8 in. Square Bolt.

| Length, Inches | Wt. Dozen, Lbs. | Per Dozen |
|------------------------|-----------------|-----------|
| 6 | 9 | 12 |
| 12 | 15 | 18 |
| Weight Per Dozen, Lbs. | 5 | 6 1/2 |
| Per Dozen | \$10.90 | 12.25 |

6 and 9 in., One Dozen; Others, One-half Dozen in a Box.



No. 393—Wrought Steel

Width 1 1/4 in., Lip Extension 1 5/8 in., 1/2 in. Square Bolt.

Prices Per Dozen

| Length, Inches | Wt. Dozen, Lbs. | Per Dozen |
|------------------------|-----------------|-----------|
| 6 | 9 | 12 |
| 12 | 15 | 18 |
| Weight Per Dozen, Lbs. | 6 3/4 | 8 1/2 |
| Polished Bronze | \$14.60 | 16.30 |
| Antique Copper | 15.85 | 17.60 |

No. 1020—Wrought Steel Bright, Brass Plated Knob

Width 1 1/4 in., Lip Extension 1 5/8 in., 1/2 in. Square Bolt

| Length, Inches | Wt. Dozen, Lbs. | Per Dozen |
|------------------------|-----------------|-----------|
| 6 | 9 | 12 |
| 12 | 15 | 18 |
| Weight Per Dozen, Lbs. | 6 | 8 |
| Per Dozen | \$8.65 | 9.70 |

6 in., One Dozen; Others, One-half Dozen in a Box.



Cast Bronze Polished

| Nos. | Size, Inches | Wt. Each, Lbs. | Per Dozen |
|-----------------------------|--------------|----------------|-----------|
| A2360 | 5/8 x 8 | 1x8 | A2361 |
| A2361 | 1x8 | 1x12 | A2361 |
| Weight Each, Lbs. | 1/2 | 5/8 | 1 |
| Polished Brass Finish..Each | \$2.55 | 2.65 | 3.35 |

Six in a Box, with Screws.

BOTTOM CANE BOLTS

Wrought Steel, Extra Heavy

For Use on Bottom of Garage or Warehouse Doors.

5/8 in. Diameter, 18 in. Long.

Per Dozen

No. 524J-1—Japanned\$ 9.00

No. 524G-1—Galvanized 12.00

Weight Per Dozen 36 Pounds.

3/4 in. Diameter, 24 in. Long.

No. 524J-2—Japanned\$12.00

No. 524G-2—Galvanized 15.00

Weight Per Dozen 54 Pounds.

One-sixth Dozen in a Metal Edged Box, with Screws, Keeper Plates, Brackets and Guides.



FOOT BOLTS



Cast Iron

Size 2½ x 1½ inches. Per Dozen
No. EA3143—Dull Brass, Natural Color. \$5.15
Weight Per Dozen 3½ Pounds.

Cast Bronze, Polished

Size 2½ x 1½ inches.
No. EA143—Dull Brass, Natural Color. 14.40
Weight Per Dozen 3½ Pounds.
One Dozen in a Box, with Screws.

Cast Iron

Width 1½ inches.

No. R3244½—Antique Copper

Length, Inches 3 4
Weight Per Dozen, Lbs. 3½ 4
Per Dozen \$5.60 6.40

No. EA3244½—Dull Brass, Natural Color
Length, Inches 3 4
Per Dozen \$5.60 6.40

Cast Bronze, Polished

Width 1½ inches.

No. B1244½—Polished Bronze

Length, Inches 3 4
Weight Per Dozen, Lbs. 3½ 4½
Per Dozen \$13.60 20.80

One-half Dozen in a Box, with Screws.

Cast Iron

Width 2½ inches.

No. J13250—Japanned

Length, Inches 6 8
Wt. Per Dozen, Lbs. 11¼ 15
Per Dozen \$7.10 8.35

No. B13250—Polished Bronze

Length, Inches 6 8
Per Dozen \$8.90 11.10

No. R13250—Antique Copper

Length, Inches 6 8
Per Dozen \$8.90 11.10

No. EA13250—Dull Brass, Natural Color

Length, Inches 6 8
Per Dozen \$8.90 11.10

Cast Bronze, Polished

Width 2½ inches.

No. B4250½—Polished Bronze

Length, Inches 6 8
Wt. Per Dozen, Lbs. 13¼ 16
Per Dozen \$28.90 36.10

One-half Dozen in a Box, with Screws.

Wrought Steel

No. 1056J—Japanned

Length Bolt, Inches 6 8 10
Length Plate, Inches 5 7 9
Width Plate, Inches 2 2½ 3½
Diameter of Bolt, In. ½ ¾ 1
Wt. Per Dozen, Lbs. 8½ 12 30
Per Dozen \$13.75 22.90 32.50

No. 356F—Dull Brass

Length Bolt, Inches 3 6 8
Length Plate, Inches 2½ 5 7
Width Plate, Inches 1½ 2 2½
Diameter of Bolt, In. ½ ¾ 1
Wt. Per Dozen, Lbs. 2¼ 8½ 12
Per Dozen \$10.65 15.65 26.00

Note—The 3, 6 and 8 inch sizes are packed with Strike Plate; 10 inch size with Strike Plate and Concrete Floor Strike.

CHAIN BOLTS

Cast Iron

Size 2 x 1½ inches. Per Dozen

No. EA3142—Dull Brass, Natural Color \$5.15
Weight Per Dozen 3 Pounds.

Cast Bronze

Size 2 x 1½ inches.

No. EA142—Dull Brass, Natural Color 14.40
Weight Per Dozen 2½ Pounds.
One Dozen in a Box, with Screws.

Cast Iron

Width 2½ inches.

No. J13252—Japanned

Length, Inches 4 6 8
Wt. Dozen, Lbs. 6¾ 12 15
Per Dozen \$6.00 7.35 8.90

No. B13252—Polished Bronze

Length, Inches 4 6 8
Per Dozen \$8.00 9.35 11.65

No. R13252—Antique Copper

Length, Inches 4 6 8
Per Dozen \$8.00 9.35 11.65

No. EA13252—Dull Brass, Natural Color

Length, Inches 4 6 8
Per Dozen \$8.00 9.35 11.65

Cast Bronze, Polished

Width 2½ inches.

No. B4252½—Polished Bronze

Length, Inches 4 6 8
Weight Per Dozen, Lbs. 7¼ 13 16½
Per Dozen \$20.00 26.65 36.00

No. EA4252½—Dull Brass, Natural Color

Length, Inches 4 6 8
Per Dozen \$20.00 26.65 36.00

One-half Dozen in a Box, with Screws.

Wrought Steel

No. 1055J—Japanned

Length Bolt, In. 6 8 10
Length Plate, In. 5 7 9
Width Plate, In. 2 2½ 3½
Diam. Bolt, In. ¾ 1 1¼
Wt. Dozen, Lbs. 12 13¼ 33
Per Dozen \$14.40 23.75 33.75

No. 355F—Dull Brass

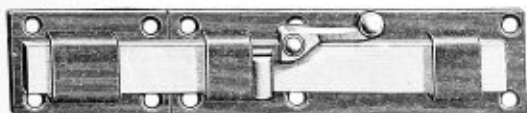
Length Bolt, In. 3 6 8
Length Plate, In. 2½ 5 7
Width Plate, In. 1½ 2 2½
Diam. Bolt, In. ¾ 1 1¼
Wt. Dozen, Lbs. 4 12 13¼
Per Dozen \$11.90 17.50 26.90

These bolts can be reversed by removing the set screw, permitting them to be used on the outside or inside of doors.

3 and 6 in. One-half Dozen; 8 in. One-quarter Dozen; 10 in. One-twelfth Dozen in a Box, with Screws.



LOCK SHUTTER BOLTS

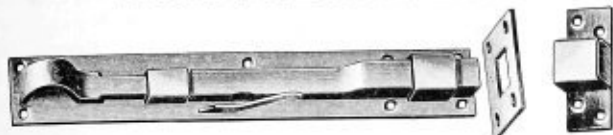


No. 1118—Japanned Plate, Polished Bolt, Tinned Knob

| | | | | |
|------------------------|--------|------|-------|-------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Weight Per Dozen, Lbs. | 8 1/2 | 11 | 16 | 18 |
| Per Dozen | \$8.80 | 9.55 | 11.45 | 14.65 |

One-half Dozen in a Box.

SPRING FLAT BOLTS



No. 1050—Wrought Steel, Bright, Extra Heavy

Plate 1 1/4 in. Wide, Bolts 3/4 in. Square.

| | | | |
|------------------------|---------|-------|-------|
| Length, Inches | 8 | 10 | 12 |
| Weight Per Dozen, Lbs. | 18 | 20 | 22 |
| Per Dozen | \$15.00 | 15.95 | 17.00 |

| | | | |
|------------------------|---------|-------|-------|
| Length, Inches | 15 | 18 | 24 |
| Weight Per Dozen, Lbs. | 23 | 27 | 33 |
| Per Dozen | \$18.45 | 19.40 | 20.60 |

8, 10 and 12 in., Packed with No. 1 Flat Staple; Larger Sizes with No. 4 Strap Staple.

One-quarter Dozen in a Box.

SQUARE BOLTS



No. 1088—Heavy, Wrought Steel, Japanned Plate, Polished Bolt, Sherardized Steel Spring

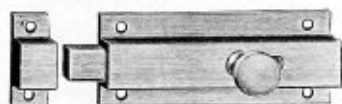
3 in. Size have Bolts 5/8 in. Square; 4 and 5 in. 3/4 in. Square; 6 in., 1/2 in. Square; 8 in., 3/4 in. Square; 10 and 12 in., 1 in. Square.

| | | | | |
|---------------------|--------|-------|-------|------|
| Length, Inches | 3 | 4 | 5 | 6 |
| Wt. Per Dozen, Lbs. | 2 1/4 | 4 1/2 | 5 1/2 | 10 |
| Per Dozen | \$4.25 | 5.30 | 5.60 | 7.60 |

| | | | |
|---------------------|---------|-------|-------|
| Length, Inches | 8 | 10 | 12 |
| Wt. Per Dozen, Lbs. | 17 | 30 | 36 |
| Per Dozen | \$11.15 | 16.95 | 20.60 |

6 in. and Smaller, One Dozen; 8 in., One-half Dozen; 10 and 12 in., One-quarter Dozen in a Box.

SPRING BOLTS



No. 0149 1/2—Wrought Bronze, Polished

| | | |
|------------------------|---------|-------|
| Length, Inches | 3 | 4 |
| Weight Per Dozen, Lbs. | 3 | 4 3/4 |
| Per Dozen | \$13.60 | 15.20 |

One-half Dozen in a Box, with Screws.

SPRING BOLTS



No. 141 1/2—Cast Bronze, Polished

| | | | | |
|------------------------|--------|-------|-------|-------|
| Length, Inches | 3 | 4 | 5 | 6 |
| Weight Per Dozen, Lbs. | 3 1/2 | 4 3/4 | 6 3/4 | 9 1/4 |
| Per Dozen | \$9.60 | 13.20 | 16.80 | 21.60 |

One-half Dozen in a Box, with Screws.



No. 1154—Wrought Steel, Japanned Plate, Polished Bolt

| | | | |
|------------------------|--------|-------|-------|
| Length, Inches | 2 1/2 | 3 | 4 |
| Weight Per Dozen, Lbs. | 9/10 | 1 1/4 | 1 3/4 |
| Per Dozen | \$2.30 | 2.55 | 3.45 |

One Dozen in a Box.

No. 1155—Wrought Brass

| | | | |
|------------------------|--------|------|-------|
| Length, Inches | 2 1/2 | 3 | 4 |
| Weight Per Dozen, Lbs. | 4 5/10 | 9/10 | 1 3/8 |
| Per Dozen | \$5.40 | 6.55 | 8.65 |

One Dozen in a Box.



No. 1102—Wrought Steel, Japanned Plate, Polished Bolt, Sherardized Steel Spring

| | | |
|------------------------|--------|-------|
| Length, Inches | 4 | 6 |
| Offset, Inches | 1/2 | 5/8 |
| Weight Per Dozen, Lbs. | 4 1/2 | 5 |
| Per Dozen | \$9.55 | 13.80 |

One-half Dozen in a Box.



No. 1150—Wrought Steel, Japanned Plate, Polished Bolt

| | | | | |
|------------------------|--------|--------|------|--------|
| Length, Inches | 2 | 2 1/2 | 3 | 4 |
| Weight Per Dozen, Lbs. | 1 1/2 | 4 5/10 | 1 | 1 7/10 |
| Per Dozen | \$2.10 | 2.30 | 2.55 | 3.45 |

No. 1151—Wrought Brass

| | | | | |
|------------------------|--------|-------|------|-------|
| Length, Inches | 2 | 2 1/2 | 3 | 4 |
| Weight Per Dozen, Lbs. | 1 1/2 | 9/10 | 1 | 1 3/4 |
| Per Dozen | \$4.45 | 5.40 | 6.55 | 8.65 |

One Dozen in a Box.



No. 1551.

Wrought Brass

No. 1551 1/2.

| | |
|--|--------|
| No. 1551—2 in., Polished, Weight Per Dozen | 1 1/4 |
| Lbs. | \$4.80 |
| No. 1551 1/2—2 1/2 in., Polished, Weight Per Dozen | 1 1/2 |
| 1 1/2 Lbs. | 5.35 |

One Dozen in a Box, with Screws.

MOSQUITO BAR BOLTS



Wrought Brass

No. 1585—2 in., Polished.....\$3.20

Weight Per Dozen ½ Pound.
Three Dozen in a Box, with Screws.

BARREL BOLTS



Wrought Steel, Light

No. 1078—Japanned Plate, Polished Bolt, Brass
Plated Knob

| | | | | | |
|-----------------------|--------|------|------|------|------|
| Length, Inches..... | 2½ | 3 | 4 | 5 | 6 |
| Weight Dozen, Lbs.... | 1½ | 2 | 3 | 4½ | 5½ |
| Per Dozen | \$2.00 | 2.55 | 2.85 | 3.30 | 3.85 |

One Dozen in a Box.

No. 406-A—Light Bronze

| | | | | |
|---------------------|--------|------|------|------|
| Length, Inches..... | 3 | 4 | 5 | 6 |
| Per Dozen | \$3.85 | 4.15 | 5.20 | 5.80 |

One Dozen in a Box, with Screws.



No. 1923—Wrought Brass, Polished

| | | | | | |
|-----------------------|--------|------|------|-------|-------|
| Length, Inches..... | 2½ | 3 | 4 | 5 | 6 |
| Weight Dozen, Lbs.... | 2½ | 3 | 3½ | 4½ | 5 |
| Per Dozen | \$4.40 | 6.05 | 7.15 | 10.00 | 12.00 |

One Dozen in a Box, with Screws.



Wrought Steel, Heavy

No. 1084—Japanned Plate, Polished Bolt, Brass Plated
Knob

| | | | | | |
|-----------------------|--------|------|------|------|------|
| Length, Inches..... | 3 | 4 | 5 | 6 | 8 |
| Weight Dozen, Lbs.... | 3½ | 4 | 6 | 7 | 15 |
| Per Dozen | \$3.20 | 3.65 | 4.45 | 5.05 | 9.70 |

3, 4 and 5 in., One Dozen; 6 in., One-half Dozen; 8 in.,
One-quarter Dozen in a Box.

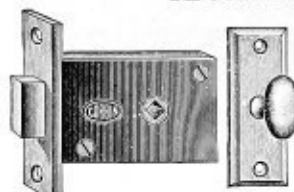
MORTISE BOLTS



Cast Bronze

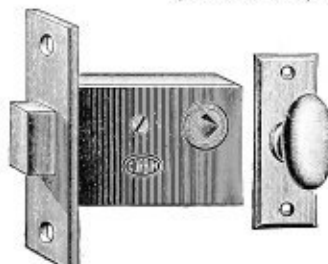
No. 5251—Dull Brass, Natural Color.....\$15.00
No. 5235—Polished Brass 15.00 |
No. 5242—Nickel Plated 16.10 |
Description—2½x1¼x½ in. Japanned Iron Case, 1¼ in.
Backset, 1½x2½ in. Cast Bronze Front and Strike, Cast
Bronze Bolt, Turnpiece and Escutcheon, Brass Hub
for ½ in. Spindle.Weight Per Dozen 8 Pounds.
One-half Dozen in a Box, with Screws.

MORTISE BOLTS

Description—1¼x2¼ in. Ja-
panned Iron Case, 1¼ in.
Backset, 3x1½ in. Cast
Bronze Front, Cast Bronze
Bolt, Reversible, Cast
Bronze Thumb Knob, Oper-
ates by Thumb Knob from
One Side Only.

Each

No. B163—Polished Bronze.....\$1.50

Weight Per Box 4½ Pounds.
Six in a Box, with Screws.Description—2½x3¼ in.
Japanned Iron Case, 2½
in. Backset, 4½x1½ in.
Cast Bronze Front, Cast
Bronze Bolt, Reversible,
Cast Bronze Thumb
Knob, Operated by
Thumb Knob from One
Side Only.

Each

No. B168½—Polished Bronze.....\$6.00

Weight Per Box 7½ Pounds.
Six in a Box, with Screws.Wrought Bronze, Cast Bronze Knob,
Iron Bolt

1¼x¾ in. Plate, ¾ in. Backset.

Per Dozen

No. EA0657½—Dull Brass, Natural Color.....\$5.50

Weight Per Dozen 2½ Pounds.
One Dozen in a Box, with Screws.

Wrought Steel, Iron Bolt and Knob

1¼x¾ in. Plate, 1¼ in. Backset.

Per Dozen

No. R3657—Antique Copper \$5.35 |
No. EA3657—Dull Brass, Natural Color..... 5.35 |

Weight Per Dozen 2½ Pounds.

Wrought Bronze, Cast Bronze Knob, Iron Bolt

¾x1¼ in. Plate, 1¼ in. Backset.

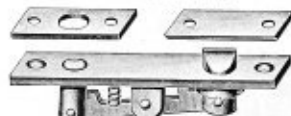
No. B0657—Polished Bronze \$5.55 |
No. R0657—Antique Copper, Polished..... 5.55 |
No. EA0657—Dull Brass, Natural Color..... 5.55 |
No. A0657—Polished Brass 5.55 |
No. SKA0657—Sanded Brass, Oxidized and Re-
lieved 6.10 |
No. E0657—Nickel Plated, Polished..... 6.10 |
No. F0657—Genuine Rustless Iron..... 5.55 |

Weight Per Dozen 2½ Pounds.

One Dozen in a Box, with Screws.

BOOK CASE BOLTS

REVERSIBLE



Wrought Bronze, Polished

No. 01407—¾x3¼ in. \$ 9.60 |

Weight Per Dozen 1½ Pounds.

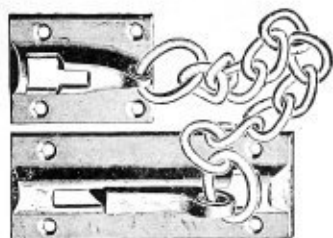
Cast Bronze, Polished

No. 1407½—¾x4¾ in. 18.40 |

Weight Per Dozen 6 Pounds.

One Dozen in a Box, with Screws.

CHAIN DOOR FASTENERS



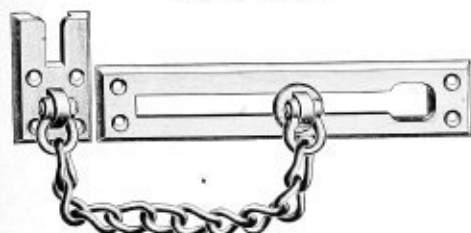
Cast Bronze

3 1/2 inch Plate.

No. 3100CX—Dull Brass, Natural Color.....\$1.50 Each

Weight Per Box 3 1/2 Pounds.

Ten in a Box.



Cast Bronze, Polished.

6 inch Plate.

No. B2264 1/2—Polished Bronze\$40.00 Per Dozen

No. R2264 1/2—Antique Copper, Polished..... 40.00

No. EA2264 1/2—Dull Brass, Natural Color..... 40.00

No. SKA2264 1/2—Sanded Brass, Oxidized and Relieved 44.00

No. E2264 1/2—Nickel Plated, Polished..... 44.00

Weight Per Dozen 8 3/4 Pounds.

One-half Dozen in a Box, with Screws.



Wrought Steel

6 inch Plate.

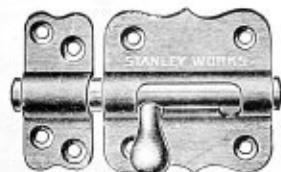
No. R03264 1/2—Antique Copper\$11.20 Per Dozen

No. EA03264 1/2—Dull Brass, Natural Color..... 11.20

Weight Per Dozen 4 1/2 Pounds.

One-half Dozen in a Box, with Screws.

CELLAR WINDOW BOLTS



Wrought Steel

No. 1076—Japanned Plate, Polished Bolt

| Length, Inches | 2 | 2 1/2 | 3 |
|------------------------|--------|-------|-------|
| Weight Per Dozen, Lbs. | 1 | 1 1/2 | 2 3/4 |
| Per Dozen | \$2.10 | 2.25 | 2.90 |

One Dozen in a Box.

CELLAR WINDOW SETS



Wrought Steel

Per Dozen Sets

No. 1760J—Japanned Finish\$7.20

No. 1760Z—Sherardized Finish 9.40

Contents of Set

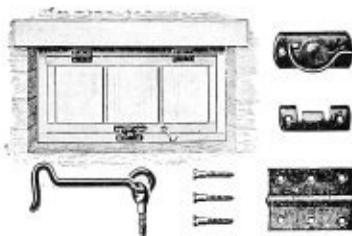
One Pair 3 in. Wrought Steel Narrow Butts.

One 2 1/2 in. Hook and Eye.

Two 2 1/2 in. Cellar Window Bolts.

Weight Per Dozen Sets 8 Pounds.

One Set in a Box, with Screws; One Dozen Boxes in a Carton.



Wrought Steel

Per Dozen Sets

No. 07—Japanned Finish\$2.75

No. 007—Galvanized 3.00

Contents of Set

One Pair 2 1/2 in. Tight Pin Butts.

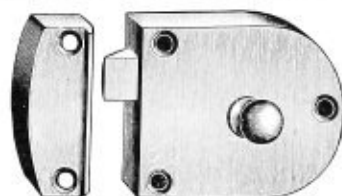
One Sash Fastener.

One Hook and Eye.

Weight Per Dozen Sets 5 1/2 Pounds.

One Set in a Box, with Screws; One Dozen Boxes in Carton.

SECRET GATE LATCHES



Cast Iron.

2x2 1/2 in.

Per Dozen

No. J01413—Japanned\$12.00

No. R01413—Antique Copper 14.70

No. EA01413—Dull Brass, Natural Color..... 14.70

Cast Bronze, Polished

2x2 1/2 in.

No. B1413—Polished Bronze\$24.00

Weight Per Dozen 7 1/4 Pounds.

One-half Dozen in a Box, with Screws.

DOOR BUTTONS



Cast Iron

No. 48—1 1/4 in., Jappanned.....\$1.00

Weight Per Gross 3 Pounds.
One Gross in a Box.



No. 1123—Cast Iron, Jappanned

| | | | | | |
|------------------------|--------|-------|-------|-------|--------|
| Size, Inches | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/2 |
| Weight Per Gross, Lbs. | 3 | 3 1/4 | 4 1/4 | 6 1/4 | 11 1/4 |
| Per Gross | \$1.05 | 1.20 | 1.35 | 1.75 | 3.20 |

2 1/2 in., One-half Gross; Others, One Gross in a Box.



Cast Brass

No. 1883—3/8 in., Polished.....\$12.65

Weight Per Gross 1 1/2 Pounds.
One Gross in a Box, with Screws.



No. 196—Wrought Brass, Polished

| | | | | |
|------------------------|--------|-------|-------|-------|
| Size, Inches | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Weight Per Gross, Lbs. | 2 1/2 | 2 3/4 | 2 3/4 | 3 1/2 |
| Per Gross | \$7.00 | 8.00 | 9.35 | 10.65 |

One Gross in a Box, with Screws.



No. 186—Wrought Brass, Polished

| | | |
|------------------------|---------|-------|
| Size, Inches | 1 1/2 | 2 |
| Weight Per Gross, Lbs. | 7 | 10 |
| Per Gross | \$24.45 | 29.35 |

One-half Gross in a Box, with Screws.

SHOW CASE CATCHES



Cast Bronze

1 1/2 x 1 1/2 in.

No. B1409—Polished Bronze\$7.75
Weight Per Dozen 1 1/2 Pounds.

1 1/4 x 2 in.

No. B1410 1/2—Polished Bronze 8.55
Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box, with Screws.

ELBOW CATCHES



Cast Iron

5/8 x 1 1/4 in. Plate.

No. J01622—Jappanned\$10.70
Weight Per Gross 12 Pounds.

Cast Brass

5/8 x 1 1/4 in. Plate.

No. 01623—Unpolished 28.80
One-quarter Gross in a Box, with Screws.



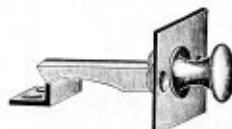
Cast Bronze

2 1/2 x 1 in. Plate.

No. B1624—Polished Bronze\$9.60

Weight Per Dozen 1 1/4 Pounds.
One Dozen in a Box, with Screws.

LEVER CUPBOARD CATCHES



Cast Bronze

1 1/4 x 1 1/4 in. Plate, for Doors up to 1 1/4 in. Thick.

No. B329—Polished Bronze\$9.35

Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box, with Screws.



Wrought Bronze

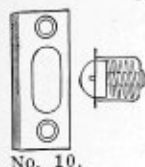
1 1/2 in. Round Base, for Doors up to 1 1/2 in. Thick.

| | | |
|-----------------|--------------------------------------|------------------|
| No. 9400-10 | —Polished Bronze | Per Dozen \$8.00 |
| No. 9400-16 | —Antique Copper, Polished | 8.00 |
| No. 9400-23 | —Dull Brass | 8.00 |
| No. 9400-23 1/2 | —Sanded Brass, Oxidized and Relieved | 8.75 |
| No. 9400-19 | —Nickel Plated, Polished | 8.75 |

This Lever Thumb Catch is far superior to ordinary catches. It operates easily, and the necessity of slamming the door, which is the objectionable feature in all catches, is avoided.

Weight Per Dozen 2 Pounds.
One Dozen in a Box, with Screws.

FRICTION CATCHES



No. 10.

Brass Shell, Strike and Bolt

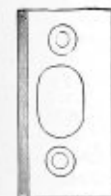
- Per Gross
No. 10—Diameter $\frac{1}{4}$ in., Length $\frac{3}{8}$ in., Strike $\frac{3}{4} \times \frac{3}{8}$ in. \$6.25
Weight Per Gross 1 $\frac{1}{4}$ Pounds.
One Gross in a Box.



No. 10 1/2.

Brass Shell, Strike and Bolt

- Per Gross
No. 10 1/2—Diameter $\frac{3}{8}$ in., Length $\frac{3}{8}$ in., Strike $1 \frac{1}{8} \times \frac{3}{8}$ in. \$6.85
Weight Per Gross 2 Pounds.
One Gross in a Box.



No. 11.

Brass Shell, Strike and Bolt

- Per Gross
No. 11—Diameter $\frac{3}{8}$ in., Length $\frac{3}{8}$ in., Strike $1 \frac{1}{8} \times \frac{3}{8}$ in. \$7.50
Weight Per Gross 2 $\frac{1}{2}$ Pounds.
One Gross in a Box.



No. 01819.

Wrought Brass

- Per Dozen
No. 01819—1 $\frac{1}{4} \times \frac{3}{8}$ in. \$1.50
Weight Per Dozen $\frac{1}{4}$ Pound.
One Dozen in a Box.

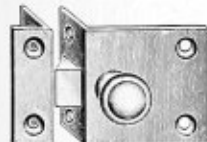


No. 01820.

Wrought Brass, Easy Spring

- Per Dozen
No. 01820—2 $\times \frac{3}{4}$ in., Polished and Lacquered \$1.50
Weight Per Dozen $\frac{5}{8}$ Pound.
One Dozen in a Box.

CUPBOARD CATCHES

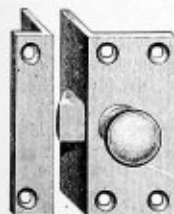


No. B2280 1/2.

Cast Bronze

1 $\frac{1}{4} \times 1 \frac{3}{8}$ in.

- Per Dozen
No. B2280 1/2—Polished Bronze. \$10.40
Weight Per Dozen 1 $\frac{1}{2}$ Pounds.
One Dozen in a Box, with Screws.



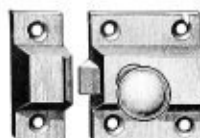
No. B2269 1/2.

Cast Bronze

1 $\times 2$ in.

- Per Dozen
No. B2269 1/2—Polished Bronze. \$13.35
Weight Per Dozen 2 Pounds.
One Dozen in a Box, with Screws.

CUPBOARD CATCHES



Cast Iron

1 $\times 1 \frac{3}{8}$ in.

Per Dozen

- No. B13270 1/4—Bronze Plated, Polished. \$2.55
No. R13270 1/4—Antique Copper, Polished. 2.55
No. EA13270 1/4—Dull Brass, Natural Color. 2.55
No. E13270 1/4—Nickel Plated, Polished. 2.80
Weight Per Dozen 1 $\frac{1}{4}$ Pounds.

1 $\frac{1}{4} \times 1 \frac{3}{8}$ in.

- No. Y13271—Amber Bronzed. 1.60
No. B13271 1/4—Bronze Plated, Polished. 2.70
No. R13271 1/4—Antique Copper, Polished. 2.70
No. EA13271 1/4—Dull Brass, Natural Color. 2.70
No. SKA13271 1/4—Sanded Brass, Oxidized and Relieved. 2.90
No. E13271—Nickel Plated, Polished. 2.90
Weight Per Dozen 1 $\frac{1}{2}$ Pounds.

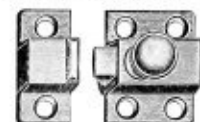
Cast Bronze, Polished

1 $\times 1 \frac{3}{8}$ in.

- No. B2270 1/2—Polished Bronze. 6.00
No. R2270 1/2—Antique Copper. 6.00
No. EA2270 1/2—Dull Brass, Natural Color. 6.00
No. E2270 1/2—Nickel Plated, Polished. 6.65
Weight Per Dozen 1 $\frac{1}{4}$ Pounds.

1 $\frac{1}{4} \times 1 \frac{3}{8}$ in.

- No. B2271 1/2—Polished Bronze. 6.65
No. R2271 1/2—Antique Copper, Polished. 6.65
No. EA2271 1/2—Dull Brass, Natural Color. 6.65
No. A2271 1/2—Polished Brass. 6.65
No. SKA2271 1/2—Sanded Brass, Oxidized and Relieved. 7.35
No. E2271 1/2—Nickel Plated, Polished. 7.35
No. F2271 1/2—Genuine Rustless Iron. 5.35
Weight Per Dozen 1 $\frac{3}{4}$ Pounds.
One Dozen in a Box, with Screws.



Wrought Steel

1 $\times 1 \frac{3}{8}$ in.

Per Dozen

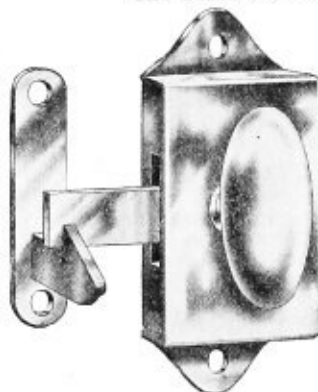
- No. R11270—Antique Copper. 1.30
No. EA11270—Dull Brass, Natural Color. 1.30
No. E11270—Nickel Plated. 1.50
1 $\frac{1}{4} \times 1 \frac{3}{8}$ in.
No. R11271—Antique Copper. 1.40
No. EA11271—Dull Brass, Natural Color. 1.40
No. E11271—Nickel Plated. 1.60
Weight Per Dozen 1 Pound.
One Dozen in a Box, with Screws.

Wrought Steel

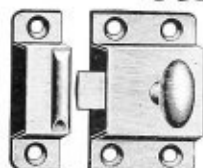
2 $\frac{1}{4} \times 1$ in.

Per Dozen

- No. 001301—Dull Brass, Natural Color. \$2.40
No. 1301-N—Nickel Plated. 2.40
Weight Per Dozen 1 $\frac{1}{4}$ Pounds.
One Dozen in a Box, with Screws.



CUPBOARD TURNS



Wrought Steel

1 1/2 x 2 1/2 in.

Per Dozen

No. R13048—Antique Copper, \$1.85

No. EA13048—Dull Brass, Natural Color

Weight Per Dozen 1 1/2 Pounds.

Wrought Bronze

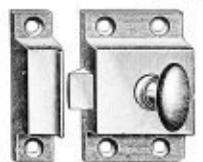
1 1/2 x 2 1/2 in.

No. EA2248 1/2—Dull Brass, Natural Color, 6.00

No. A2248 1/2—Polished Brass, 6.00

Weight Per Dozen 2 Pounds.

One Dozen in a Box, with Screws.



Cast Iron, Polished

1 1/2 x 1 3/4 in.

Per Dozen

No. R13033 1/4—Antique Copper, Polished, \$4.35

No. EA13033 1/4—Dull Brass, Natural Color, 4.35

No. SKA13033 1/4—Sanded Brass, Oxidized and Relieved, 4.70

Weight Per Dozen 2 Pounds.

1 1/2 x 2 1/2 in.

No. R13043 1/4—Antique Copper, Polished, 4.70

No. EA13043 1/4—Dull Brass, Natural Color, 4.70

No. SKA13043 1/4—Sanded Brass, Oxidized and Relieved, 5.00

Weight Per Dozen 3 3/4 Pounds.

Cast Bronze, Polished

1 1/2 x 1 3/4 in.

No. R2233 1/2—Antique Copper, Polished, 8.40

No. EA2233 1/2—Dull Brass, Natural Color, 8.40

No. SKA2233 1/2—Sanded Brass, Oxidized and Relieved, 9.20

Weight Per Dozen 2 Pounds.

1 1/2 x 2 1/2 in.

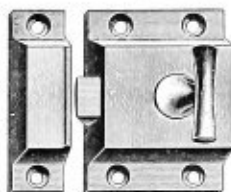
No. R2243 1/2—Antique Copper, Polished, 9.60

No. EA2243 1/2—Dull Brass, Natural Color, 9.60

No. SKA2243 1/2—Sanded Brass, Oxidized and Relieved, 10.40

Weight Per Dozen 3 3/4 Pounds.

One Dozen in a Box, with Screws.



Cast Iron

1 1/2 x 1 3/4 in.

Per Dozen

No. R13034 1/4—Antique Copper, Polished, \$4.45

No. EA13034 1/4—Dull Brass, Natural Color, 4.45

No. SKA13034 1/4—Sanded Brass, Oxidized and Relieved, 4.80

Weight Per Dozen 2 Pounds.

1 1/2 x 2 1/2 in.

No. E13034 1/4—Nickel Plated, Polished, 4.80

Weight Per Dozen 2 Pounds.

1 1/2 x 2 1/2 in.

No. Y13039—Amber Bronzed, 3.70

No. B13039 1/4—Bronze Plated, 4.80

No. R13039 1/4—Antique Copper, Polished, 4.80

No. EA13039 1/4—Dull Brass, Natural Color, 4.80

No. SKA13039 1/4—Sanded Brass, Oxidized and Relieved, 5.15

No. E13039 1/4—Nickel Plated, Polished, 5.15

Weight Per Dozen 3 1/2 Pounds.

Cast Bronze, Polished

1 1/2 x 1 3/4 in.

No. EA2034 1/2—Dull Brass, Natural Color, 8.40

No. A2034 1/2—Polished Brass, 8.40

No. SKA2034 1/2—Sanded Brass, Oxidized and Relieved, 9.20

No. E2034 1/2—Nickel Plated, Polished, 9.20

Weight Per Dozen 2 1/2 Pounds.

1 1/2 x 2 1/2 in.

No. B2039 1/2—Polished Bronze, 9.60

No. R2039 1/2—Antique Copper, Polished, 9.60

No. EA2039 1/2—Dull Brass, Natural Color, 9.60

No. A2039 1/2—Polished Brass, 9.60

No. SKA2039 1/2—Sanded Brass, Oxidized and Relieved, 10.40

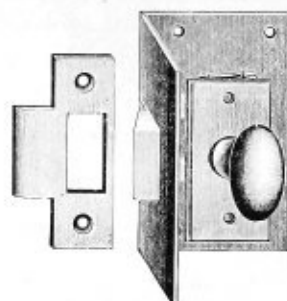
No. E2039 1/2—Nickel Plated, Polished, 10.40

No. F2039 1/2—Genuine Rustless Iron, 6.60

Weight Per Dozen 3 1/2 Pounds.

One Dozen in a Box, with Screws.

CUPBOARD LATCHES



Brass, Buffed and Lacquered

Heavy Cast Brass Latch Bolt, Reversible, for 1 1/2 in. wood.

Nos. 0239C 0239D 0239E 0239F

Size, Inches 2 3/4 x 1 1/2 2 3/4 x 1 3/4 2 3/4 x 1 7/8 2 3/4 x 2 1/2

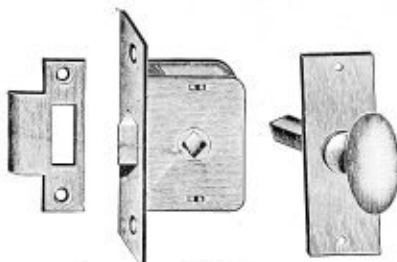
Backset, Inches 3/4 7/8 1 1 1/4

Wt. Per Dozen, Lbs. 4 5/8 4 7/8 4 7/8 5

Per Dozen \$45.30 45.30 45.30 45.30

Both 3/8 and 1/2 in. Spindles can be used.

One-half Dozen in a Box.



Brass

Per Dozen

No. 0226—2 3/4 x 1 1/2 in., 7/8 in. Backset, Brass Sel-

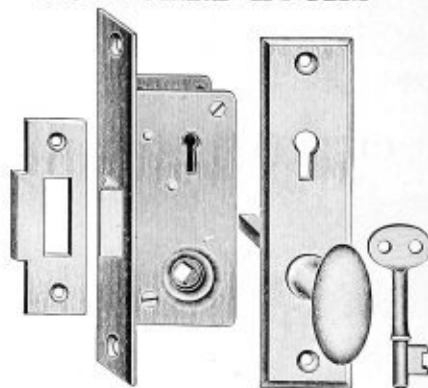
vedge, Latch Bolt, Knob, Escutcheons and

Strike \$19.50

Weight Per Dozen 3 1/4 Pounds.

One Dozen in a Box.

CUPBOARD LOCKS



Brass, Buffed and Lacquered

Broad Heavy Cast Brass Latch Bolt, Reversible, Screwed Steel Case, 1 Tumbler, 1 Solid Bronze Buffed Key which Enters from Either Side, for 3/8 to 1 1/4 in. Wood.

Nos. 0234C 0234D

Size, Inches 4x1 1/2 4x1 3/4

Backset, Inches 3/4 7/8

Weight Per Dozen, Lbs. 4 5/8 5

Per Dozen \$33.00 33.00

One-half Dozen in a Box.

REFRIGERATOR FASTENERS

STANDARD

Cast Brass

Length Over All 5 in., Length Lever 4 in.

With Flush Strike

Per Dozen

No. 614 — Polished Brass \$16.00

No. 614N—Nickel Plated 18.00

With $\frac{3}{8}$ in. Offset Strike

No. 0614 — Polished Brass \$18.00

No. 0614N—Nickel Plated 20.00

Note—Illustration Shows Right Hand. In Ordering, State if Right or Left Hand is Wanted.

Weight Per Dozen 5 $\frac{1}{2}$ Pounds.

One Dozen in a Box.



FOUR-IN-ONE

Length Over All 4 $\frac{1}{4}$ in., Length Lever 3 $\frac{1}{2}$ in.

Each

No. 6582 — Polished Brass \$1.00

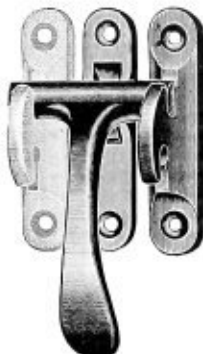
No. 6582N—Nickel Plated 1.10

This Fastener can be used either Right or Left Hand and for either Flush or Offset Doors.

Reversing the strike makes it suitable for either Flush or Offset Doors. This does away with the necessity of carrying Right and Left Hand Fasteners and Flush and Offset Strikes in Stock.

Weight Per Box 4 $\frac{1}{4}$ Pounds.

Ten in a Box.



REFRIGERATOR LOCKS

Cast Brass

4x2 $\frac{1}{4}$ in.

With Flush Strike

Per Dozen

No. 873 — Polished Brass \$12.00

No. 873N—Nickel Plated 14.00

With $\frac{3}{8}$ in. Offset Strike

No. 0873 — Polished Brass 12.75

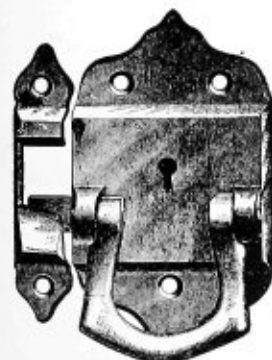
No. 0873N—Nickel Plated 14.75

Note—Illustration Shows Right Hand. In Ordering State if Right or Left Hand is Wanted.

Weight Per Dozen 9 $\frac{3}{4}$ Pounds.

One-half Dozen in a Box, with

One Key for Each Lock.



Cast Brass

With Flush Strike

Per Dozen

No. 1801—3 $\frac{3}{8}$ x2 in., Natural Finish \$10.00With $\frac{3}{8}$ in. Offset Strike.No. 01801—3 $\frac{3}{8}$ x2 in., Natural Finish 11.00

Note—Illustration Shows Right Hand. In Ordering State if Right or Left Hand is Wanted.

Weight Per Dozen 6 $\frac{1}{4}$ Pounds.

One-half Dozen in a Box, with One

Key for Each Lock.



REFRIGERATOR LATCHES



Cast Brass

1 $\frac{5}{8}$ x2 $\frac{1}{2}$ in.

With Flush Strike

Per Dozen

No. 610 — Polished Brass \$ 8.50

No. 610N—Nickel Plated 9.75

With $\frac{3}{8}$ in. Offset Strike

No. 0610 — Polished Brass 9.00

No. 0610N—Nickel Plated 10.25

Weight Per Dozen 4 $\frac{3}{4}$ Pounds.1 $\frac{3}{4}$ x3 $\frac{1}{2}$ in.

With Flush Strike

No. 611 — Polished Brass 11.00

No. 611N—Nickel Plated 12.00

With $\frac{3}{8}$ in. Offset Strike

No. 0611 — Polished Brass 11.50

No. 0611N—Nickel Plated 12.25

Weight Per Dozen 7 $\frac{1}{8}$ Pounds.

One Dozen in a Box.

REFRIGERATOR FASTENERS

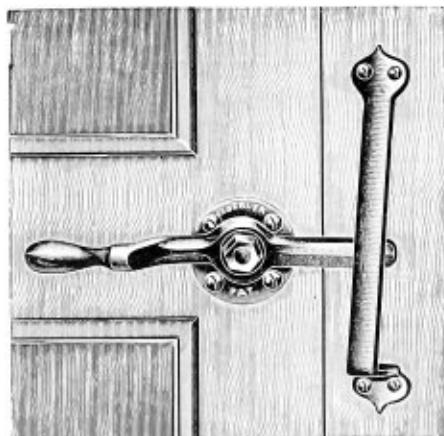
GLOEKNER

These Fasteners are easy to operate and have nothing to break, wear out or get out of order.

In closing the door, turn the lever inside the keeper and press down on the handle. This seals the door perfectly tight with little effort.

To open turn the handle around until lever comes outside the keeper, then lift on the handle which will force the door open no matter how tightly sealed. Can be used on Right or Left Hand Doors.

OUTSIDE HANDLE ONLY



Malleable Iron, Tinned

| Nos. | 1 | 2 | 3 |
|---------------------------|--------|-----------------|-----------------|
| Length Lever, Inches..... | 14 | 11 | 8 $\frac{1}{2}$ |
| Weight Each, Lbs..... | 5 | 2 $\frac{3}{4}$ | 1 $\frac{1}{2}$ |
| Each | \$3.00 | 2.00 | 1.00 |

WITH INSIDE HANDLE

This Fastener is similar to Nos. 1, 2 and 3 described above, but with a bolt extending through the door and a handle on the inside allowing the fastener to be operated from both sides of door.

Malleable Iron, Tinned

| Nos. | 0 | 00 |
|---------------------------|-----------------|------|
| Length Lever, Inches..... | 16 | 13 |
| Weight Each, Lbs..... | 8 $\frac{1}{2}$ | 5 |
| Each | \$5.00 | 3.40 |

One in a Box.

CASEMENT FASTENERS

REVERSIBLE



Mortise Strike.



Surface Strike.



Rim Strike.



Fastener.

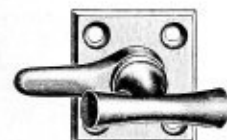
The above strikes also furnished with Nos. 03166, 02166, 03170 and 02170 Fasteners.

Cast Bronze Thumb Turn and Strike, $1\frac{1}{2} \times 1\frac{1}{2}$ in. Wrought Bronze Plate

| No. | Strike | Finish | Per Dozen |
|---------------|-------------------------|--------|-----------|
| No. EA02159M | Mortise, Dull Brass | | \$7.35 |
| No. A02159M | Mortise, Polished Brass | | 7.35 |
| No. SKA02159M | Mortise, Sanded Brass | | 8.00 |
| No. EA02159S | Surface, Dull Brass | | 7.35 |
| No. A02159S | Surface, Polished Brass | | 7.35 |
| No. SKA02159S | Surface, Sanded Brass | | 8.00 |
| No. EA02159R | Rim, Dull Brass | | 7.35 |
| No. A02159R | Rim, Polished Brass | | 7.35 |
| No. SKA02159R | Rim, Sanded Brass | | 8.00 |

Weight Per Dozen About 2½ Pounds.

One Dozen in a Box, with Screws.

Cast Iron, $1\frac{1}{2} \times 1\frac{1}{2}$ in. Plate

Strikes Same Style as No. 02159.

| No. | Strike | Finish | Per Dozen |
|---------------|-------------------------|--------|-----------|
| No. R03166M | Mortise, Antique Copper | | \$2.65 |
| No. EA03166M | Mortise, Dull Brass | | 2.65 |
| No. SKA03166M | Mortise, Sanded Brass | | 3.00 |
| No. E03166M | Mortise, Nickel Plated | | 3.00 |
| No. R03166S | Surface, Antique Copper | | 2.65 |
| No. EA03166S | Surface, Dull Brass | | 2.65 |
| No. SKA03166S | Surface, Sanded Brass | | 3.00 |
| No. E03166S | Surface, Nickel Plated | | 3.00 |
| No. R03166R | Rim, Antique Copper | | 2.65 |
| No. EA03166R | Rim, Dull Brass | | 2.65 |
| No. SKA03166R | Rim, Sanded Brass | | 3.00 |
| No. E03166R | Rim, Nickel Plated | | 3.00 |

Cast Bronze, Polished, $1\frac{1}{2} \times 1\frac{1}{2}$ in. Plate

Strikes Same Style as No. 02159.

| No. | Strike | Finish | Per Dozen |
|---------------|--------------------------|--------|-----------|
| No. B02166M | Mortise, Polished Bronze | | \$8.00 |
| No. R02166M | Mortise, Antique Copper | | 8.00 |
| No. EA02166M | Mortise, Dull Brass | | 8.00 |
| No. A02166M | Mortise, Polished Brass | | 8.00 |
| No. SKA02166M | Mortise, Sanded Brass | | 8.65 |
| No. E02166M | Mortise, Nickel Plated | | 8.65 |
| No. F02166M | Mortise, Rustless Iron | | 5.55 |
| No. B02166S | Surface, Polished Bronze | | 8.00 |
| No. R02166S | Surface, Antique Copper | | 8.00 |
| No. EA02166S | Surface, Dull Brass | | 8.00 |
| No. A02166S | Surface, Polished Brass | | 8.00 |
| No. SKA02166S | Surface, Sanded Brass | | 8.65 |
| No. E02166S | Surface, Nickel Plated | | 8.65 |
| No. F02166S | Surface, Rustless Iron | | 5.55 |
| No. B02166R | Rim, Polished Bronze | | 8.00 |
| No. R02166R | Rim, Antique Copper | | 8.00 |
| No. EA02166R | Rim, Dull Brass | | 8.00 |
| No. A02166R | Rim, Polished Brass | | 8.00 |
| No. SKA02166R | Rim, Sanded Brass | | 8.65 |
| No. E02166R | Rim, Nickel Plated | | 8.65 |
| No. F02166R | Rim, Rustless Iron | | 5.55 |

Weight Per Dozen About 3½ Pounds.

One Dozen in a Box, with Screws.

CASEMENT FASTENERS

REVERSIBLE

Cast Iron, $1\frac{1}{2} \times 1\frac{1}{2}$ in. Plate

Strikes Same Style as No. 02159.



Strike Finish

Per Dozen

| No. | Strike | Finish | Per Dozen |
|---------------|-------------------------|--------|-----------|
| No. R03170M | Mortise, Antique Copper | | \$3.65 |
| No. EA03170M | Mortise, Dull Brass | | 3.65 |
| No. SKA03170M | Mortise, Sanded Brass | | 4.00 |
| No. E03170M | Mortise, Nickel Plated | | 4.00 |
| No. R03170S | Surface, Antique Copper | | 3.65 |
| No. EA03170S | Surface, Dull Brass | | 3.65 |
| No. SKA03170S | Surface, Sanded Brass | | 4.00 |
| No. E03170S | Surface, Nickel Plated | | 4.00 |
| No. R03170R | Rim, Antique Copper | | 3.65 |
| No. EA03170R | Rim, Dull Brass | | 3.65 |
| No. SKA03170R | Rim, Sanded Brass | | 4.00 |
| No. E03170R | Rim, Nickel Plated | | 4.00 |

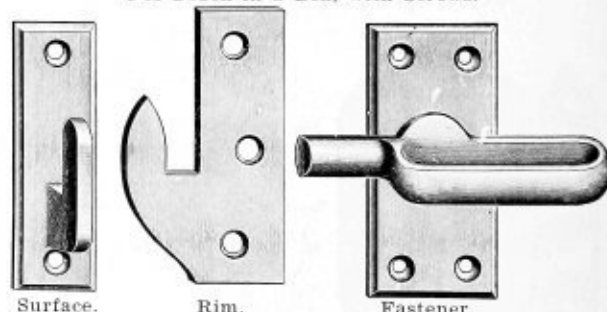
Cast Bronze, Polished, $1\frac{1}{2} \times 1\frac{1}{2}$ in. Plate

Strikes Same Style as No. 02159.

| No. | Strike | Finish | Per Dozen |
|---------------|--------------------------|--------|-----------|
| No. B02170M | Mortise, Polished Bronze | | 8.00 |
| No. R02170M | Mortise, Antique Copper | | 8.00 |
| No. EA02170M | Mortise, Dull Brass | | 8.00 |
| No. A02170M | Mortise, Polished Brass | | 8.00 |
| No. SKA02170M | Mortise, Sanded Brass | | 8.90 |
| No. E02170M | Mortise, Nickel Plated | | 8.90 |
| No. F02170M | Mortise, Rustless Iron | | 5.35 |
| No. B02170S | Surface, Polished Bronze | | 8.00 |
| No. R02170S | Surface, Antique Copper | | 8.00 |
| No. EA02170S | Surface, Dull Brass | | 8.00 |
| No. A02170S | Surface, Polished Brass | | 8.00 |
| No. SKA02170S | Surface, Sanded Brass | | 8.90 |
| No. E02170S | Surface, Nickel Plated | | 8.90 |
| No. F02170S | Surface, Rustless Iron | | 5.35 |
| No. B02170R | Rim, Polished Bronze | | 8.00 |
| No. R02170R | Rim, Antique Copper | | 8.00 |
| No. EA02170R | Rim, Dull Brass | | 8.00 |
| No. A02170R | Rim, Polished Brass | | 8.00 |
| No. SKA02170R | Rim, Sanded Brass | | 8.90 |
| No. E02170R | Rim, Nickel Plated | | 8.90 |
| No. F02170R | Rim, Rustless Iron | | 5.35 |

Weight Per Dozen About 4 Pounds.

One Dozen in a Box, with Screws.



Surface.

Rim.

Fastener.

Cast Bronze, Polished, $3\frac{1}{2} \times 1\frac{1}{2}$ in. Plate

Mortise Strike Same as No. 02159.

| No. | Strike | Finish | Per Dozen |
|---------------|--------------------------|--------|-----------|
| No. B02164M | Mortise, Polished Bronze | | \$15.55 |
| No. EA02164M | Mortise, Dull Brass | | 15.55 |
| No. A02164M | Mortise, Polished Brass | | 15.55 |
| No. SKA02164M | Mortise, Sanded Brass | | 17.10 |
| No. F02164M | Mortise, Rustless Iron | | 10.00 |
| No. B02164S | Surface, Polished Bronze | | 15.55 |
| No. EA02164S | Surface, Dull Brass | | 15.55 |
| No. A02164S | Surface, Polished Brass | | 15.55 |
| No. SKA02164S | Surface, Sanded Brass | | 17.10 |
| No. F02164S | Surface, Rustless Iron | | 10.00 |
| No. B02164R | Rim, Polished Bronze | | 15.55 |
| No. EA02164R | Rim, Dull Brass | | 15.55 |
| No. A02164R | Rim, Polished Brass | | 15.55 |
| No. SKA02164R | Rim, Sanded Brass | | 17.10 |
| No. F02164R | Rim, Rustless Iron | | 10.00 |

Weight Per Dozen About 7¼ Pounds.

One-half Dozen in a Box, with Screws.

CASEMENT ADJUSTERS

FOR CASEMENTS OPENING OUT



Cast Iron, Wrought Steel Bar

 $\frac{3}{8}$ in. Bar, $\frac{3}{4}$ x $2\frac{1}{4}$ in. Sash Plate, $\frac{3}{4}$ x $2\frac{1}{4}$ in. Sill Plate.No. R043 $\frac{1}{2}$ —Antique Copper

| | | |
|-------------------------|--------|------|
| Length Bar, Inches..... | 10 | 12 |
| Per Dozen | \$5.10 | 5.55 |

No. EA043 $\frac{1}{2}$ —Dull Brass, Natural Color

| | | |
|-------------------------|--------|------|
| Length Bar, Inches..... | 10 | 12 |
| Per Dozen | \$5.10 | 5.55 |

Cast Bronze, Wrought Bronze Bar

 $\frac{3}{8}$ in. Bar, $\frac{3}{4}$ x $2\frac{1}{4}$ in. Sash Plate, $\frac{3}{4}$ x $2\frac{1}{4}$ in. Sill Plate.No. A43 $\frac{1}{2}$ —Polished Brass

| | | |
|----------------------------|--------|------|
| Length Bar, Inches..... | 10 | 12 |
| Weight Per Dozen, Lbs..... | 11 | 12 |
| Each | \$2.00 | 2.10 |

One-third Dozen in a Box, with Screws.

FOR CASEMENTS OPENING IN



Cast Iron, Wrought Steel Bar

 $\frac{3}{8}$ x $1\frac{1}{2}$ in. Bar, $1\frac{1}{2}$ x $1\frac{1}{2}$ in. Sash Plate, $\frac{3}{4}$ x $2\frac{1}{4}$ in. Sill Plate.No. EA044 $\frac{3}{4}$ —Dull Brass, Natural Color.....\$9.60

Weight Per Dozen 11 Pounds.

One-third Dozen in a Box, with Screws.

FOR CASEMENTS OPENING OUT



Cast Iron, Wrought Steel Rod and Sash Bracket

No. R0045—Antique Copper

| | | |
|----------------------------|---------------------------------|----------------------------------|
| Length Bar, Inches..... | 8 | 10 |
| Size Plate, Inches..... | $1\frac{1}{8}$ x $8\frac{3}{4}$ | $1\frac{1}{8}$ x $10\frac{3}{4}$ |
| Weight Per Dozen, Lbs..... | $7\frac{1}{2}$ | $8\frac{1}{2}$ |
| Per Dozen | \$7.00 | 9.45 |

No. EA0045—Dull Brass, Natural Color

| | | |
|-------------------------|---------------------------------|----------------------------------|
| Length Bar, Inches..... | 8 | 10 |
| Size Plate, Inches..... | $1\frac{1}{8}$ x $8\frac{3}{4}$ | $1\frac{1}{8}$ x $10\frac{3}{4}$ |
| Per Dozen | \$7.00 | 9.45 |

Cast Bronze, Wrought Bronze Rod and Sash Bracket

No. EA45—Dull Brass, Natural Color

| | | |
|----------------------------|---------------------------------|----------------------------------|
| Length Bar, Inches..... | 8 | 10 |
| Size Plate, Inches..... | $1\frac{1}{8}$ x $8\frac{3}{4}$ | $1\frac{1}{8}$ x $10\frac{3}{4}$ |
| Weight Per Dozen, Lbs..... | $8\frac{1}{4}$ | $10\frac{3}{4}$ |
| Each | \$1.90 | 2.00 |

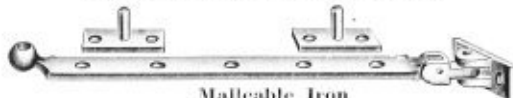
No. A45—Polished Brass

| | | |
|-------------------------|---------------------------------|----------------------------------|
| Length Bar, Inches..... | 8 | 10 |
| Size Plate, Inches..... | $1\frac{1}{8}$ x $8\frac{3}{4}$ | $1\frac{1}{8}$ x $10\frac{3}{4}$ |
| Each | \$1.90 | 2.00 |

One-third Dozen in a Box, with Screws.

CASEMENT ADJUSTERS

FOR CASEMENTS OPENING OUT



Malleable Iron

 $\frac{3}{8}$ x $1\frac{1}{2}$ in. Bar, $\frac{3}{4}$ x $2\frac{1}{4}$ in. Sash Plate, $\frac{3}{4}$ x $1\frac{1}{8}$ in. Sill Plate.

No. R043—Antique Copper.....\$11.20

No. EA043—Dull Brass, Natural Color.....11.20

Weight Per Dozen 10 Pounds.

Cast Bronze, Polished

 $\frac{3}{8}$ x $1\frac{1}{2}$ in. Bar, $\frac{3}{4}$ x $2\frac{1}{4}$ in. Sash Plate, $\frac{3}{4}$ x $1\frac{1}{8}$ in. Sill Plate.No. A043 $\frac{1}{4}$ —Polished Brass.....\$5.00

Weight Per Dozen 11 Pounds.

One-half Dozen in a Box, with Screws.

FOR CASEMENTS OPENING IN



Wrought Bronze, Polished

 $\frac{3}{8}$ in. Bar, $\frac{5}{8}$ in. Tube.

No. B56—Polished Bronze

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Weight Per Dozen, Lbs..... | $8\frac{1}{2}$ | 10 |
| Each | \$1.65 | 2.00 |

No. R56—Antique Copper, Polished

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Each | \$1.65 | 2.00 |

No. EA56—Dull Brass, Natural Color

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Each | \$1.65 | 2.00 |

No. SKA56—Sanded Brass, Oxidized and Relieved

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Each | \$1.80 | 2.20 |

No. E56—Nickel Plated, Polished

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Each | \$1.80 | 2.20 |

Six in a Box, with Screws.

FOR CASEMENTS OPENING OUT



Wrought Bronze, Polished

 $\frac{3}{8}$ in. Bar, $\frac{5}{8}$ in. Tube.

No. B55—Polished Bronze

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Weight Per Dozen, Lbs..... | $8\frac{1}{2}$ | 10 |
| Each | \$1.65 | 2.00 |

No. R55—Antique Copper, Polished

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Each | \$1.65 | 2.00 |

No. EA55—Dull Brass, Natural Color

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Each | \$1.65 | 2.00 |

No. SKA55—Sanded Brass, Oxidized and Relieved

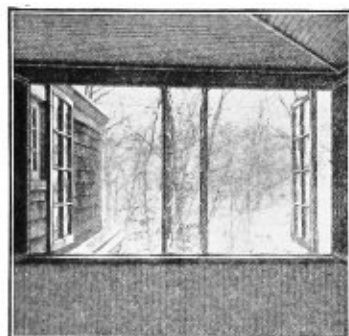
| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Each | \$1.80 | 2.20 |

No. E55—Nickel Plated, Polished

| | | |
|------------------------------|-----------------|-----------------|
| Length Closed, Inches..... | 10 | 12 |
| Length Extended, Inches..... | $16\frac{1}{4}$ | $20\frac{1}{8}$ |
| Each | \$1.80 | 2.20 |

One-half Dozen in a Box, with Screws.

WHITCO CASEMENT HARDWARE FOR CASEMENTS AND TRANSOMS



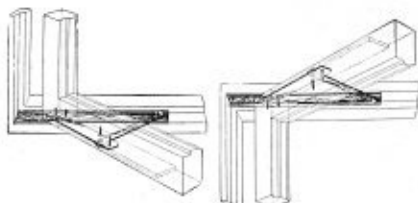
Any number of sash may be installed in a wide opening without mullions.

Whitco is a simple, self-contained unit that takes the place of both butts and adjusters for swinging and controlling casements and transoms.

This hardware is easily and quickly applied to single sash, pairs of sash or to multiple sash in wide openings without mullions. It may be used on old or new sash.

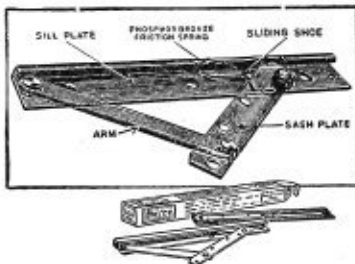
There are no lefts or rights. Whether the sash is to swing to the left or the right determines which piece goes at the top and which piece goes at the bottom.

No special sash or frame detail is required. The only fitting needed is a small housing at top and bottom of each sash, which the carpenter can make with a chisel. Otherwise a screwdriver is the only tool he uses in making an installation. No special hardware finishes need be considered. When installed Whitco is entirely concealed.



Whitco applied at bottom of casement swinging out.

Whitco applied at top of casement swinging out.



One size fits all casements up to 30 inches in width, or all transoms up to 20 inches in height. For transoms over 20 inches high Whitco may be obtained in special sizes. Prices on request.

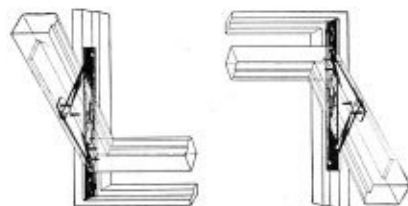
A set—the equipment for one casement or transom—consists of two pieces, one for the top and one for the bottom of a sash, or one for each side of a transom. These pieces are identical, except one is the reverse of the other.



Whitco makes it easy and safe to clean outside of casement from within the room.

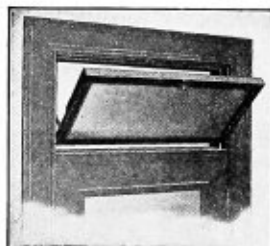
| | Per Set |
|--|---------|
| No. 057—Wrought Steel, Rust Proof Finish | \$1.75 |
| No. 57—Solid Brass, Dull Brass Finish | 2.25 |

Each set, with 14 screws and installing instructions, is packed in a neat carton 14x8 inches, shipping weight 1 pound.



Whitco at left end of transom swinging in from top.

Whitco at right end of transom swinging in from bottom.



Whitco-equipped transom swinging in from top.



Whitco-equipped transom swinging either in or out from bottom. Ventilation both above and below transom.

CALEDONIA CASEMENT CONTROLS

FOR USE ON WHITCO EQUIPPED SASH

The Caledonia Casement Control, designed for use in combination with Whitco Casement Hardware, is the most practical means of opening, closing, and locking a casement without removing the screen.

It is a simple assembly of two arms, so fashioned as to adapt itself to the peculiar movement of a Whitco equipped sash, and with its leverage so multiplied that the maximum of force is exerted with a minimum of effort.

Like Whitco, this unit is easily and quickly applied to single sash, pairs of sash, and to multiple sash in wide openings without mullions.

The Caledonia control opens and closes sash instantly and positively. Locks sash securely when closed—closes and locks with one motion.

It is contained entirely between the jambs and within the width of the sills. Installed with four screws, no cutting or fitting required.



Solid Brass

Reversible, either right or left hand, for use on any single sash 14 in. wide or more, on any pair of sash with a total width of 24 in. or more, or on multiple sash of any width.

Caledonia—Dull Brass Finish. Each \$2.00

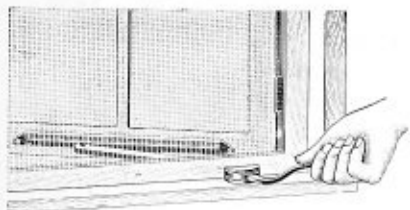
Other finishes furnished at a slight additional cost.

One in a Carton, with Screws and Installing Directions.

CASEMENT WINDOW OPERATORS

WIN-DOR

Win-Dor Casement Operators open and close the casement without need of opening or closing the screen. A quick easy swing brings the window to the desired position from full-open to tight-shut. The moment the handle is released the window locks automatically in the desired position.



Surface Type

Length Sash Channel $1\frac{1}{2}$ in., Window Arm to Center of Pivot 10 in., Diameter Pivot Head 2 in., Height $\frac{3}{4}$ in. For all Sash Over 15 in. Wide, Either Wood or Metal.

Steel

No. 7—Parkerized (Rust Resisting Black) Finish, without Handle \$2.00

No. 7S—Sherardized, without Handle..... 2.10

Steel Arm Pivot and End Piece, Solid Brass Channel

Rivet and Spring

No. 5 —Sherardized, without Handle..... \$2.50

No. 5DB—Dull Brass, without Handle..... 2.75

No. 5SB—Sanded Antique Brass, without Handle.. 3.00

Solid Brass, Concealed Steel Re-enforcing

No. 6 —Dull Brass, without Handle..... \$3.75

No. 6SB—Sanded Antique Brass, without Handle... 4.00

Note—In ordering, specify Right or Left Hand as viewed from within the room.

Weight Each $1\frac{1}{2}$ Pounds.
One in a Box, with Screws.

HANDLES ONLY

Wrought Steel

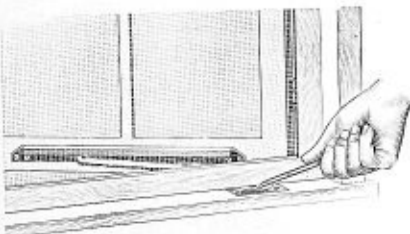
Interchangeable Right or Left Hand; May be Permanently Attached if Desired. Each

No. 71 —Parkerized Finish \$0.20

No. 71S —Sherardized Finish20

No. 71DB—Dull Brass25

No. 71SB—Sanded Antique Brass..... .30



Flush Type

Plate $3\frac{1}{2}$ in. Square, Cup Depth (Including Plate) $\frac{1}{4}$ in., Diameter Cup $2\frac{1}{2}$ in., Arm Length $9\frac{3}{4}$ in. to Center of Pivot, for All Sash Over 15 in. Wide.

Cast and Wrought Brass

No. 24BDB—Dull Brass, without Handle..... \$6.00

No. 24BSB—Sanded Antique Brass, without Handle. 6.40

Note—In ordering, specify Right or Left Hand as viewed from within the room.

Weight Each $2\frac{1}{2}$ Pounds.
One in a Box, with Screws.

HANDLES ONLY

Cold Rolled Steel

Interchangeable Right or Left Hand, Detachable Only. Each

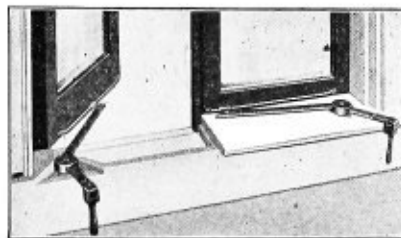
No. 241DB—Dull Brass \$0.40

No. 241SB—Sanded Antique Brass..... .50

Note—Offset Handles for deep inside jambs or Long Handles for use with projected cleaning hinges can be furnished for the above operation at same price.

CASEMENT WINDOW OPERATORS

MONARCH CONTROL LOCK



Wrought Steel

Each

No. 03-9—Dull Brass, Natural Color..... \$5.00

Releases, swings and locks sash in one continuous motion.

Note—When ordering, state hand.

Weight Per Box $9\frac{1}{2}$ Pounds.

Three Pairs in a Box.

CASEMENT WINDOW CHECKS

MONARCH



Wrought Steel, Copper Discs

Each

No. 07Z —Zinc Plated \$0.85

No. 07DB—Dull Brass 1.00

For use on transoms and casement windows. The Monarch casement check is composed of two copper discs, compressed between steel plates by means of an adjustment screw causing perfect friction that continues to function regardless of wear and strain.

Weight Per Box 6 Pounds.

Twelve in a Box.

CASEMENT FASTENERS

MORTISE

Cast Bronze, Polished

Each

No. B76—Polished Bronze \$2.20

No. EA76—Dull Brass, Natural Color 2.20

Description— $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ in. Japanned Iron Case, $\frac{3}{4}$ in. Backset, $3\frac{1}{2} \times \frac{1}{2}$ in Cast Bronze Front, Cast Bronze Bolt, Reversible, Hub for $\frac{1}{8}$ in. Spindle.

Weight Per Dozen $4\frac{3}{4}$ Pounds.
One-half Dozen in a Box, with Screws.

WINDOW SPRING BOLTS



Per 100

No. 15—Iron, Coppered \$3.10

No. 37—Steel, Tinned 4.70

Weight Per Hundred $5\frac{1}{2}$ Pounds.

No. 38—Steel, Tinned, for Extra Wide Sash..... 5.50

Weight Per Hundred $6\frac{1}{4}$ Pounds.

One Hundred in a Box.

WINDOW SPRING BOLT SOCKETS

Per 100

No. 50—For Window Spring Bolts..... \$1.10

Weight Per Hundred $1\frac{1}{2}$ Pounds.

One Hundred in a Box.

SHUTTER BARS

Wrought Steel

Size 2 in. Per Dozen

No. R937—Antique Copper...\$1.90

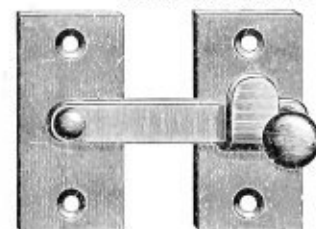
No. EA937—Dull Brass 1.90

Wrought Bronze Polished

Size 2 in.

No. R937½—Antique Cop- per, Polished 4.20

No. EA937½—Dull Brass.... 4.20

Weight Per Dozen 1½ Pounds.
Three Dozen in a Box, with Screws.

Wrought Steel

Per Dozen

No. 1124J—3 in., Ja- panned\$2.50

Weight Per Dozen 3¼ Pounds.

One Dozen in a Box, with Screws.

VENTILATING SASH LOCKS



Lock Applied to Window.



Lock.

Cast Iron, Burnished

Length Over All 2 in., Width 1½ in. Per Dozen

No. 037—Dull Brass, Natural Color.....\$4.50

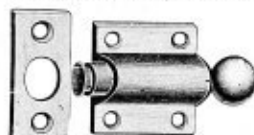
Cast Brass, Polished

Length Over All 2 in., Width 1½ in.

No. 051—Dull Brass, Natural Color..... 8.10

Weight Per Dozen 1¼ Pounds.

One Dozen in a Box, with Screws.



Cast Iron, Polished

1¼x1½ in.

Per Dozen

No. EA01405—Dull Brass, Natural Color.....\$6.65

Cast Bronze, Polished

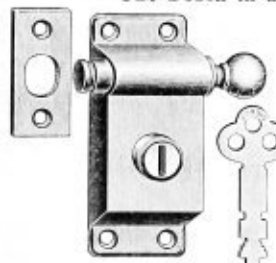
1¼x1½ in.

No. B1405—Polished Bronze 8.00

No. EA1405—Dull Brass, Natural Color..... 8.00

Weight Per Dozen 2 Pounds.

One Dozen in a Box, with Screws.



Cast Bronze, Polished

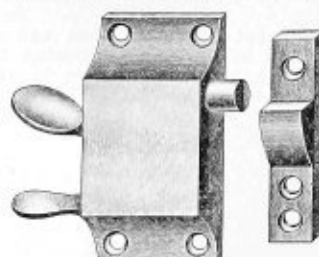
Each

No. A1405½—Polished Brass\$3.90

Weight Per Dozen 3¼ Pounds.

Six in a Box, with Screws.

VENTILATING SASH LOCKS



Cut Shows Right Hand Lock.

Cast Bronze

Size 2½x1½ in., with Three Strikes.

Each

No. B2405—Polished Bronze.....\$1.35

Note—In Ordering State if Right or Left Hand is Wanted.

Weight Per Dozen 7 Pounds.

Twelve in a Box, with Screws.

SASH FASTENERS



Cast Iron

1x2½ in. Case, ¾x2½ in. Strike.

Per Dozen

No. B1830—Bronze Plated\$1.55

No. R1830—Antique Copper 1.55

No. EA1830—Dull Brass, Natural Color..... 1.55

No. SKA1830—Sanded Brass 1.65

Weight Per Dozen 2¼ Pounds.

Cast Bronze, Polished

1x2½ in. Case, ¾x2½ in. Strike.

No. B1830½—Polished Bronze 8.80

No. R1830½—Antique Copper, Polished..... 8.80

No. EA1830½—Dull Brass Natural Color..... 8.80

No. A1830½—Polished Brass 8.80

No. SKA1830½—Sanded Brass, Oxidized and Re- lieved 9.40

No. E1830½—Nickel Plated Polished..... 9.40

No. F1830½—Genuine Rustless Iron..... 4.90

Weight Per Dozen 3½ Pounds.

One Dozen in a Box, with Screws.



Cast Iron

1½x3 in. Case, 1x3 in. Strike.

Per Dozen

No. B1831—Bronze Plated\$2.80

No. R1831—Antique Copper 2.80

No. EA1831—Dull Brass, Natural Color..... 2.80

Weight Per Dozen 4½ Pounds.

Cast Bronze, Polished

1½x3 in. Case, 1x3 in. Strike.

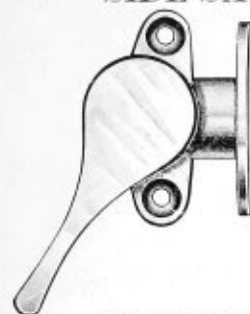
No. B1831½—Polished Bronze 12.20

No. EA1831½—Dull Brass, Natural Color..... 12.20

Weight Per Dozen 5½ Pounds.

One Dozen in a Box, with Screws.

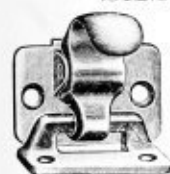
SIDE SASH FASTENERS



Malleable Iron
1 1/2 in. Face Plate, 2 1/2 in. Lever.
Per Dozen
No. 18F—Amber Bronzed, \$2.00
No. 18B—Antique Copper, 2.50
No. 18C—Dull Brass, 2.50
Weight Per Box 1 Pound.

Malleable Iron, Extra Heavy
1 1/2 in. Face Plate, 2 1/2 in. Lever.
Per Dozen
No. 8710B—Antique Cop-
per, \$3.50
Weight Per Box 2 Pounds.
Ten in a Box, with Screws.

SASH LIFTS AND LOCKS



Cast Iron

1 1/4 x 1 1/2 in. Per Dozen

No. B13313—Bronze Plated, \$2.75
No. R13313—Antique Copper, 2.75
No. EA13313—Dull Brass, Natural Color, 2.75
No. SKA13313—Sanded Brass, Oxidized and Relieved, 3.10

Weight Per Dozen 2 1/2 Pounds.

Cast Bronze, Polished

1 1/4 x 1 1/2 in.

No. B4313 1/2—Polished Bronze, 10.00
No. R4313 1/2—Antique Copper, Polished, 10.00
No. EA4313 1/2—Dull Brass, Natural Color, 10.00
No. A4313 1/2—Polished Brass, 10.00
No. SKA4313 1/2—Sanded Brass, Oxidized and Relieved, 11.00
No. F4313 1/2—Genuine Rustless Iron, 7.10

Weight Per Dozen 2 1/2 Pounds.

One Dozen in a Box, with Screws.

HOOK SASH LIFTS

Wrought Steel

1 x 1 1/2 in.

Per Gross

No. B11845—Bronze Plated, Polished, \$4.00
No. R11845—Antique Copper, Polished, 4.00
No. EA11845—Dull Brass, Natural Color, 4.00
No. SKA11845—Sanded Brass, Oxidized and Relieved, 4.40

Weight Per Gross 6 1/4 Pounds.

One-quarter Gross in a Box, with Screws.

Wrought Bronze, Polished

1 x 1 1/2 in.

Per Dozen

No. B2180—Polished Bronze, \$1.20
No. R2180—Antique Copper, Polished, 1.20
No. EA2180—Dull Brass, Natural Color, 1.20
No. A2180—Polished Brass, 1.20
No. SKA2180—Sanded Brass, Oxidized and Relieved, 1.35
No. E2180—Nickel Plated, Polished, 1.35
No. F2180—Genuine Rustless Iron, .90

Weight Per Dozen 5/8 Pound.

Two Dozen in a Box, with Screws.

Cast Iron

1 1/4 x 1 1/2 in.

Per Dozen

No. B3184—Antique Copper, \$1.35
No. EA3184—Dull Brass, Natural Color, 1.35

Cast Bronze, Polished

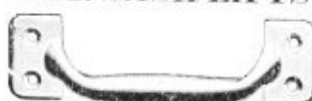
1 1/4 x 1 1/2 in.

No. B2184—Polished Bronze, 4.00
No. R2184—Antique Copper, Polished, 4.00
No. EA2184—Dull Brass, Natural Color, 4.00
No. A2184—Polished Brass, Natural Color, 4.00
No. SKA2184—Sanded Brass, Oxidized and Relieved, 4.45
No. E2184—Nickel Plated, Polished, 4.45
No. F2184—Genuine Rustless Iron, 3.00

Weight Per Dozen 1 1/2 Pounds.

No. 3184, Three Dozen; No. 2184, Two Dozen in a Box, with Screws.

BAR SASH LIFTS



Cast Iron

1 x 4 in.

Per Dozen

No. B03296—Bronze Plated, \$0.85
No. R03296—Antique Copper, .85
No. EA03296—Dull Brass, Natural Color, .85
No. SKA03296—Sanded Brass, Oxidized and Relieved, .95
No. E03296—Nickel Plated, .95

Weight Per Dozen 1 1/4 Pounds.

1 1/2 x 5 in.

No. B3296—Bronze Plated, 1.15
No. R3296—Antique Copper, 1.15
No. EA3296—Dull Brass, Natural Color, 1.15
No. SKA3296—Sanded Brass, Oxidized and Relieved, 1.25

Weight Per Dozen 3 Pounds.

Cast Bronze, Polished

1 x 4 in.

No. B09296—Polished Bronze, 4.20
No. R09296—Antique Copper, Polished, 4.20
No. EA09296—Dull Brass, Natural Color, 4.20
No. A09296—Polished Brass, 4.20
No. SKA09296—Sanded Brass, Oxidized and Relieved, 4.45
No. E09296—Nickel Plated, Polished, 4.45
No. F09296—Genuine Rustless Iron, 2.20

Weight Per Dozen 2 Pounds.

1 1/2 x 5 in.

No. B9296—Polished Bronze, 6.00
No. R9296—Antique Copper, Polished, 6.00
No. EA9296—Dull Brass, Natural Color, 6.00
No. A9296—Polished Brass, 6.00
No. SKA9296—Sanded Brass, Oxidized and Relieved, 6.65
No. E9296—Nickel Plated, Polished, 6.65
No. F9296—Genuine Rustless Iron, 3.15

Weight Per Dozen 3 1/4 Pounds.

One Dozen in a Box, with Screws.

FLUSH SASH LIFTS

Cast Bronze, Polished

1 1/2 x 3 1/4 in.

Per Dozen

No. B2219—Polished Bronze, \$5.35
No. R2219—Antique Copper, 5.35
No. EA2219—Dull Brass, Natural Color, 5.35
No. A2219—Polished Brass, 5.35
No. SKA2219—Sanded Brass, Oxidized and Relieved, 5.90
No. F2219—Genuine Rustless Iron, 4.00

Weight Per Dozen 1 1/2 Pounds.

One Dozen in a Box, with Screws.

Cast Bronze, Polished

1 1/2 x 3 in.

Per Dozen

No. B02226 1/4—Polished Bronze, \$5.90
No. R02226 1/4—Antique Copper, 5.90
No. EA02226 1/4—Dull Brass, Natural Color, 5.90
No. A02226 1/4—Polished Brass, 5.90
No. SKA02226 1/4—Sanded Brass, Oxidized and Relieved, 6.35
No. F02226 1/4—Genuine Rustless Iron, 4.45

Weight Per Dozen 1 1/2 Pounds.

One Dozen in a Box, with Screws.

Wrought Bronze, Polished

1 1/2 x 3 1/4 in.

Per Dozen

No. B2215—Polished Bronze, \$1.55
No. R2215—Antique Copper, 1.55
No. EA2215—Dull Brass, Natural Color, 1.55
No. A2215—Polished Brass, 1.55
No. SKA2215—Sanded Brass, Oxidized and Relieved, 1.75
No. F2215—Genuine Rustless Iron, 1.20

Weight Per Dozen 5/8 Pound.

One Dozen in a Box, with Screws.

WINDOW STOP ADJUSTERS



Wrought Steel

1 in. No. 8 Screw.

| | No. | Material | Per Gross |
|--|-------------|-------------------------------------|-----------|
| | No. R0184 | Antique Copper Polished | \$2.80 |
| | No. EA0184 | Dull Brass, Natural Color | 2.80 |
| | No. SKA0184 | Sanded Brass, Oxidized and Relieved | 3.20 |
| | | Weight Per Gross 1 3/4 Pounds. | |

Wrought Bronze

1 in. No. 8 Screw.

| | No. | Material | Per Gross |
|--|------------|-------------------------------------|-----------|
| | No. B184 | Polished Bronze | 8.80 |
| | No. R184 | Antique Copper, Polished | 8.80 |
| | No. EA184 | Dull Brass, Natural Color | 8.80 |
| | No. A184 | Polished Brass | 8.80 |
| | No. SKA184 | Sanded Brass, Oxidized and Relieved | 9.60 |
| | No. F184 | Genuine Rustless Iron | 3.20 |
| | | Weight Per Gross 2 Pounds. | |
| | | One Gross in a Box. | |

SASH PULLS



Cast Iron

1 1/8 x 4 3/8 in.

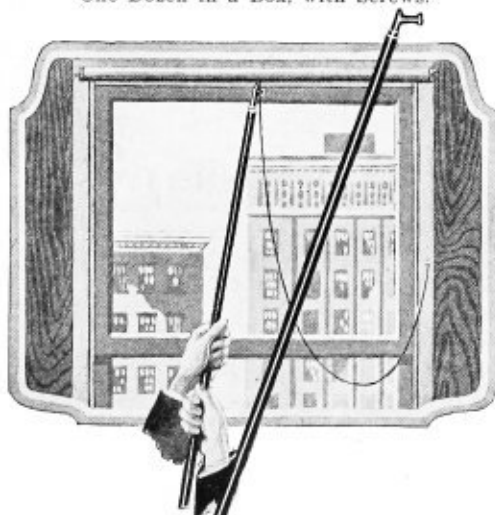
| | No. | Material | Per Dozen |
|--|-----------|---------------|-----------|
| | No. B3287 | Bronze Plated | \$3.35 |

Weight Per Dozen 5 1/4 Pounds.

Cast Bronze, Polished

1 1/8 x 4 3/8 in.

| | No. | Material | Per Dozen |
|--|-----------|----------------------------------|-----------|
| | No. B2287 | Polished Bronze | 10.00 |
| | | Weight Per Dozen 4 1/2 Pounds. | |
| | | One Dozen in a Box, with Screws. | |



No. 1—20 Gauge Steel Tubing, Black Enameled, Rubber Bumper

| Length, Feet | 6 | 8 |
|------------------------|-------------|-------|
| Weight Per Dozen, Lbs. | 24 | 30 |
| Per Dozen | \$18.00 | 21.00 |
| | Open Stock. | |

SASH PULL POLES



Selected Hard Wood

Finished to Match Interior Woodwork in Ash, Natural, Golden, Antique or Flemish Oak, Imitation Mahogany or any Special Finish.

| | No. 6071 | | | | | | |
|-----------------|-------------|--------|-------|--------|-------|--------|--|
| Length, Feet | 4 | 5 | 6 | 7 | 8 | 9 | |
| Wt. Dozen, Lbs. | 12 | 13 1/2 | 15 | 17 1/2 | 20 | 23 1/2 | |
| Per Dozen | \$4.50 | 5.00 | 6.00 | 7.00 | 8.00 | 12.00 | |
| Length, Feet | 10 | 12 | 14 | 16 | 18 | | |
| Wt. Dozen, Lbs. | 27 | 33 | 39 | 46 | 55 | | |
| Per Dozen | \$16.00 | 24.00 | 32.00 | 40.00 | 52.00 | | |
| | Open Stock. | | | | | | |

POLE HANGERS

Cast Iron

2 3/8 x 1 1/8 in.

Per Dozen

| | No. | Material | Per Dozen |
|--|------------|---------------------------|-----------|
| | No. B3290 | Bronze Plated | \$1.32 |
| | No. EA3290 | Dull Brass, Natural Color | 1.32 |

Cast Bronze, Polished

2 3/8 x 1 1/8 in.

| | No. | Material | Per Dozen |
|--|------------|---------------------------|-----------|
| | No. B1290 | Polished Bronze | 3.48 |
| | No. EA1290 | Dull Brass, Natural Color | 3.48 |

Weight Per Dozen 1 1/4 Pounds.

One Dozen in a Box, with Screws.

SASH SOCKETS

Cast Iron

1 in. Diameter.

Per Dozen

| | No. | Material | Per Dozen |
|--|---------------|-------------------------------|-----------|
| | No. B3186 1/2 | Bronze Plated | \$1.00 |
| | | Weight Per Dozen 1 1/8 Pound. | |

Wrought Bronze, Polished

1 in. Diameter.

| | No. | Material | Per Dozen |
|--|---------------|----------------------------------|-----------|
| | No. B2186 1/2 | Polished Bronze | 1.45 |
| | | Weight Per Dozen 1 1/8 Pound. | |
| | | Six Dozen in a Box, with Screws. | |

Cast Iron

1 1/8 x 2 in.

Per Dozen

| | No. | Material | Per Dozen |
|--|------------|---------------------------|-----------|
| | No. B3387 | Bronze Plated | \$1.20 |
| | No. EA3387 | Dull Brass, Natural Color | 1.20 |

Cast Bronze, Polished

1 1/8 x 2 in.

| | No. | Material | Per Dozen |
|--|-----------|----------------------------------|-----------|
| | No. B1287 | Polished Bronze | 3.35 |
| | | Weight Per Dozen 1 1/8 Pound. | |
| | | One Dozen in a Box, with Screws. | |

TRANSOM CHAINS



These Chains can be furnished with a Spring Snap on one end at an additional charge of \$2.40 per dozen.

Wrought Steel

1 1/8 x 1 in. Plates.

Prices Per Dozen

| Length, Inches | 12 | 15 |
|----------------|----------------|--------|
| No. R0200 1/2 | Antique Copper | \$3.10 |
| No. EA0200 1/2 | Dull Brass | 3.10 |

Wrought Bronze, Polished

1 1/8 x 1 in. Plates.

Prices Per Dozen

| Length, Inches | 12 | 15 |
|------------------------|----------------------------------|--------|
| No. EA200 1/2 | Dull Brass | \$8.70 |
| No. A200 1/2 | Polished Brass | 8.70 |
| No. E200 1/2 | Nickel Plated | 9.90 |
| Weight Per Dozen, Lbs. | 2 1/4 | 2 1/2 |
| | One Dozen in a Box, with Screws. | |

TRANSOM CATCHES

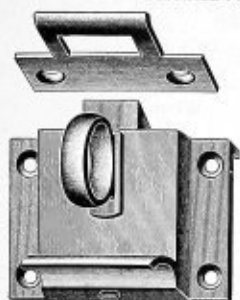
Cast Bronze, Polished

Size 1 1/8 x 2 1/2 in., 3/4 in. Return.

| | No. | Material | Per Dozen |
|--|----------------|----------------------------------|-----------|
| | No. B2279 1/2 | Polished Bronze | \$24.00 |
| | No. EA2279 1/2 | Dull Brass, Natural Color | 24.00 |
| | No. A2279 1/2 | Polished Brass | 24.00 |
| | | Weight Per Dozen 4 1/2 Pounds. | |
| | | One Dozen in a Box, with Screws. | |



TRANSOM CATCHES



Cast Iron, Malleable Iron Ring
1 7/8 x 2 1/2 in.

Per Dozen
No. Y03279 1/2 — Amber
Bronzed \$ 5.35
No. EA03279 1/2 — Dull
Brass, Natural Color... 9.60

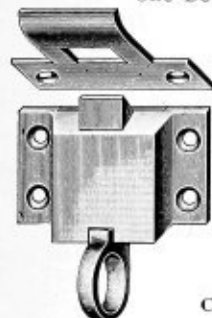
Cast Bronze, Polished
1 7/8 x 2 1/2 in.

No. A02279 1/2 — Polished
Brass 18.65
No. EA02279 1/2 — Dull
Brass, Natural Color... 18.65

Note—Furnished with Box Strike at the Same Price.

Weight Per Dozen 5 3/4 Pounds.

One Dozen in a Box, with Screws.



Cast Iron

1 1/4 x 2 1/2 in.

Per Dozen
No. Y13278 1/2 — Amber Bronze \$3.55
No. R13278 1/2 — Antique Copper. 4.00
No. EA13278 1/2 — Dull Brass,
Natural Color 4.00
No. SKA13278 1/2 — Sanded Brass 4.45
No. E13278 1/2 — Nickel Plated.. 4.45

Weight Per Dozen 3 Pounds.

Cast Bronze, Polished

1 1/4 x 2 1/2 in.

Per Dozen

No. B02278 1/2 — Polished Bronze \$10.00
No. R02278 1/2 — Antique Copper, Polished..... 10.00
No. EA02278 1/2 — Dull Brass, Natural Color..... 10.00
No. A02278 1/2 — Polished Brass 10.00
No. SKA02278 1/2 — Sanded Brass, Oxidized and Re-
lieved 11.10
No. E02278 1/2 — Nickel Plated, Polished..... 11.10
No. F02278 1/2 — Genuine Rustless Iron..... 8.00

Note—Furnished with Box Strike at the Same Price.

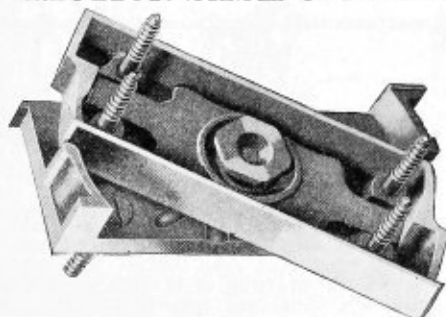
Weight Per Dozen 3 1/4 Pounds.

One Dozen in a Box, with Screws.



Illustration to the left shows Box Strike furnished with any of the above Transom Catches when so ordered.

FRICTION SASH CENTERS



Iron, Dead Black

| Nos. | 140 | 141 | 142 | 143 |
|-----------------------|--------|-------|-------|-------|
| For Sash, Inches..... | 1 1/2 | 1 3/4 | 2 | 2 1/4 |
| Weight Per Set, Lbs.. | 2 | 2 1/2 | 2 3/4 | 3 |
| Per Set | \$1.00 | 1.15 | 1.40 | 1.70 |

Friction Sash Centers may be used on either side or vertically pivoted sash. They automatically hold sash open at any angle.

One Set in a Box, with Screws.

SASH OR TRANSOM CENTERS



Cast Iron

Plates 7/8 x 2 3/8 in.

Per Dozen Sets

No. C1303—Coppered \$ 1.35
No. R1303—Antique Copper, Polished..... 2.75
No. EA1303—Dull Brass, Natural Color..... 2.75

Weight Per Dozen Sets 4 1/4 Pounds.

Plates 1 x 2 3/8 in.

No. C01303—Coppered 2.40
No. R01303—Antique Copper, Polished..... 4.40
No. EA01303—Dull Brass, Natural Color..... 4.40

Weight Per Dozen Sets 7 1/4 Pounds.

Plates 1 1/8 x 3 3/8 in.

No. C1304—Coppered 3.35
No. R1304—Antique Copper, Polished..... 5.75
No. EA1304—Dull Brass, Natural Color..... 5.75

Weight Per Dozen Sets 11 1/4 Pounds.

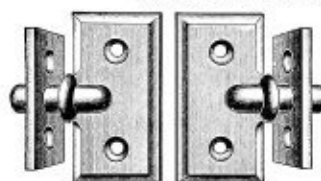
Cast Bronze, Polished

No. B1303 1/2 — 7/8 x 2 3/8 in. Plates, Polished Bronze. 19.20
Weight Per Dozen Sets 4 1/2 Pounds.

No. B01303 1/2 — 1 x 2 3/8 in. Plates, Polished Bronze,
Weight Per Dozen Sets 8 1/4 Lbs. 26.40

No. B1304 1/2 — 1 1/8 x 3 3/8 in. Plates, Polished Bronze,
Weight Per Dozen Sets 11 1/2 Lbs. 36.65

Nos. 1304 and 1304 1/2, One-half Dozen Sets; Others, One
Dozen Sets in a Box, with Screws.



Cast Iron

Per Dozen Sets

No. C1310—1 1/2 x 3 in.
Plates, Coppered. \$3.20
Weight Per Dozen Sets
10 1/2 Pounds.

One Dozen Sets in a Box,
with Screws.



Cast Iron

Per Dozen Sets

No. J1331 1/2 — 1 1/2 x
2 3/4 in. Plates,
Weight Dozen Sets
11 Pounds.
Japanned ... \$4.80

Cast Bronze

Per Dozen Sets

No. B1331—1 1/2 x 2 3/4 in. Plates, Polished Bronze. \$29.35
Weight Per Dozen Sets, 13 1/2 Pounds.

No. 1331 1/2, One Dozen Sets; No. 1331, One-half Dozen
Sets in a Box, with Screws.



Cast Iron

Per Dozen Sets

No. J1329 — 7/8 x 2 1/4 in.
Plates, Japanned..... \$1.45
Weight Per Dozen Sets 3 1/4
Pounds.

Two Dozen Sets in a Box,
with Screws.



Cast Bronze, Steel Bushed

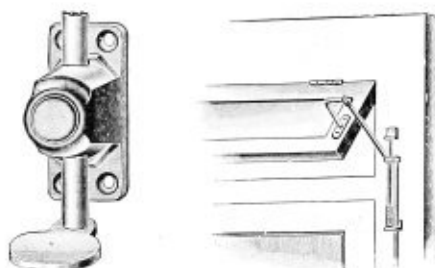
No. B1306—Polished Bronze

| Width, Inches | 1 3/8 | 1 3/4 | 2 | 2 1/4 |
|-------------------------|--------|--------|--------|-------|
| Length, Inches | 4 | 4 1/2 | 4 3/4 | 5 |
| Weight Dozen Sets, Lbs. | 17 1/4 | 26 1/4 | 27 3/4 | 32 |
| Per Dozen Sets..... | \$5.55 | 5.75 | 6.90 | 7.75 |

One-quarter Dozen Sets in a Box, with Screws.

TRANSOM LIFTERS

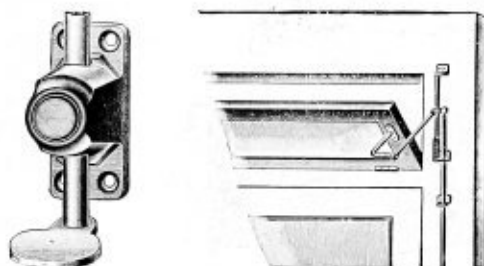
FOR TRANSOMS HINGED AT TOP OR HUNG ON CENTERS



Wrought Steel, Button Grip

| Nos. | Diam., Rod, In. | Finish | Each Length, Feet | | | | |
|--------|-----------------------|----------------|----------------------|------|-------|-------|-------|
| | | | 3 | 4 | 5 | 6 | 8 |
| C083 | 1/4 | Coppered | \$0.55 | .60 | ..... | ..... | ..... |
| B083 | 1/4 | Bronze Plated | .80 | .85 | ..... | ..... | ..... |
| R083 | 1/4 | Antique Copper | .80 | .85 | ..... | ..... | ..... |
| EA083 | 1/4 | Dull Brass | .80 | .85 | ..... | ..... | ..... |
| SKA083 | 1/4 | Sanded Brass | .90 | .95 | ..... | ..... | ..... |
| C084 | 5/16 | Coppered | ..... | .80 | .95 | ..... | ..... |
| B084 | 5/16 | Bronze Plated | ..... | 1.05 | 1.20 | ..... | ..... |
| R084 | 5/16 | Antique Copper | ..... | 1.05 | 1.20 | ..... | ..... |
| EA084 | 5/16 | Dull Brass | ..... | 1.05 | 1.20 | ..... | ..... |
| SKA084 | 5/16 | Sanded Brass | ..... | 1.20 | 1.35 | ..... | ..... |
| C085 | 3/8 | Coppered | ..... | 1.05 | 1.20 | 1.40 | 1.75 |
| B085 | 3/8 | Bronze Plated | ..... | 1.35 | 1.55 | 1.75 | 2.20 |
| R085 | 3/8 | Antique Copper | ..... | 1.35 | 1.55 | 1.75 | 2.20 |
| EA085 | 3/8 | Dull Brass | ..... | 1.35 | 1.55 | 1.75 | 2.20 |
| SKA085 | 3/8 | Sanded Brass | ..... | 1.45 | 1.65 | 1.95 | 2.40 |

FOR TRANSOMS HINGED AT BOTTOM



Wrought Steel, Button Grip

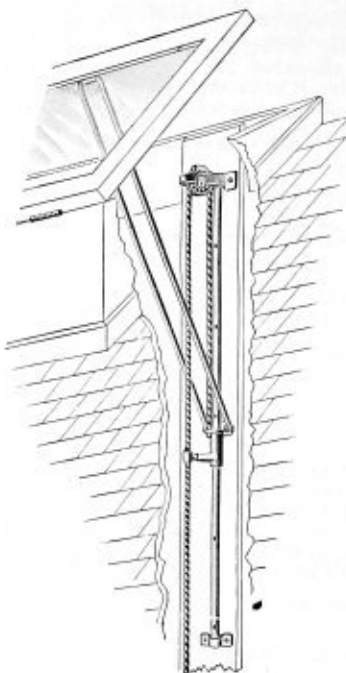
Particularly adapted for transoms hinged at bottom because of spring which acts as a cushion.

| Nos. | Diam., Rod, In. | Finish | Each Length, Feet | | | | |
|--------|-----------------------|----------------|----------------------|------|-------|-------|-------|
| | | | 3 | 4 | 5 | 6 | 8 |
| C093 | 1/4 | Coppered | \$0.85 | .95 | ..... | ..... | ..... |
| B093 | 1/4 | Bronze Plated | 1.05 | 1.10 | ..... | ..... | ..... |
| R093 | 1/4 | Antique Copper | 1.05 | 1.10 | ..... | ..... | ..... |
| EA093 | 1/4 | Dull Brass | 1.05 | 1.10 | ..... | ..... | ..... |
| SKA093 | 1/4 | Sanded Brass | 1.15 | 1.20 | ..... | ..... | ..... |
| C094 | 5/16 | Coppered | ..... | 1.15 | 1.25 | 1.45 | ..... |
| B094 | 5/16 | Bronze Plated | ..... | 1.25 | 1.45 | 1.65 | ..... |
| R094 | 5/16 | Antique Copper | ..... | 1.25 | 1.45 | 1.65 | ..... |
| EA094 | 5/16 | Dull Brass | ..... | 1.25 | 1.45 | 1.65 | ..... |
| SKA094 | 5/16 | Sanded Brass | ..... | 1.35 | 1.60 | 1.80 | ..... |
| C095 | 3/8 | Coppered | ..... | 1.45 | 1.60 | 1.80 | 2.20 |
| B095 | 3/8 | Bronze Plated | ..... | 1.65 | 1.90 | 2.10 | 2.60 |
| R095 | 3/8 | Antique Copper | ..... | 1.65 | 1.90 | 2.10 | 2.60 |
| EA095 | 3/8 | Dull Brass | ..... | 1.65 | 1.90 | 2.10 | 2.60 |
| SKA095 | 3/8 | Sanded Brass | ..... | 1.80 | 2.10 | 2.35 | 2.85 |
| C096 | 1/2 | Coppered | ..... | 2.80 | 2.95 | 3.05 | 3.45 |

Five in a Package; Coppered, without Screws; Others, with Screws.

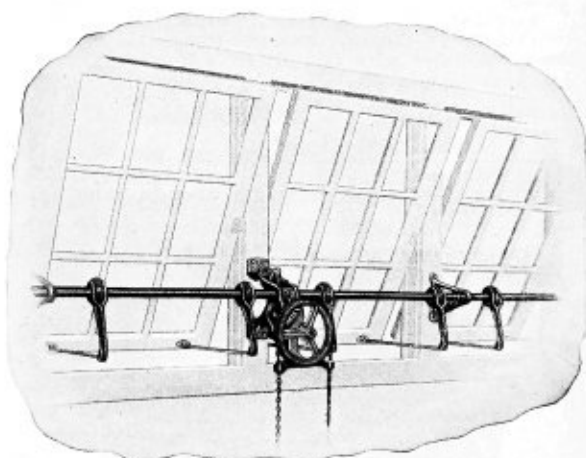
SKYLIGHT OPERATORS

CORBIN

Wrought Steel,
CopperedNo. 081—3/8 in. Diam.
RodLength, Inches. 18
Wt. Each, Lbs. 1 1/2
Each \$4.00Length, Inches. 24
Wt. Each, Lbs. 2 1/2
Each \$4.40No. 082—1/2 in. Diam.
RodLength, Inches. 18
Wt. Each, Lbs. 2 1/4
Each \$5.35Length, Inches. 24
Wt. Each, Lbs. 3
Each \$5.85Screws or Rope not
Included.

SASH OPERATORS

IDEAL



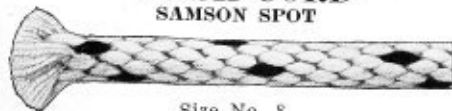
The Ideal Operator (Chain Control) is more widely used than any other type of Sash Operating Mechanism, it consists mainly of a worm and gear control, is self-locking at all points—horizontal shafting of varying sizes from 3/4 to 1 1/2 in., on which are clamped drop forged steel levers attached by connecting rods and sash plates to the sash.

A large number of slightly varying types of control (worm and gear powers) have been developed which enables us to meet the peculiar and varying conditions which are often confronted, there being often, on the same job, several types required.

Note—Prices on Request or Receipt of Specifications.

We are Prepared to Furnish Operators for all Conditions.

SASH CORD SAMSON SPOT



Size No. 8.

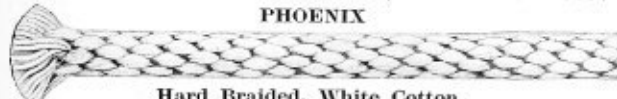


Extra Quality Cotton Yarn

In 100 Foot Hanks, Sold on Net Weights.

| | | | | |
|--------------------------------------|----------------|----------------|---------------|----------------|
| Size Nos. | 6 | 7 | 8 | 9 |
| Diameter, Inches | $\frac{3}{16}$ | $\frac{7}{32}$ | $\frac{1}{4}$ | $\frac{5}{16}$ |
| Aver. No. Feet to Lb. | 66 | 55 | 44 | 36 |
| For Weights, Lbs. | Less than 5 | 5 to 12 | 12 to 20 | 20 to 30 |
| App. Weight Dz. Hanks, Lbs. | 18 | 22 | 27 | 33 |
| Per Pound | \$ | | | |
| Size Nos. | 10 | 12 | 16 | |
| Diameter, Inches | $\frac{1}{8}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | |
| Aver. No. of Feet to Lb. | 27 | 20 | 11 | |
| For Weights, Lbs. | 30 to 40 | 40 to 50 | Over 50 | |
| App. Weight Per Dz. Hanks, Lbs. | 44 | 60 | 108 | |
| Per Pound | \$ | | | |

PHOENIX



Hard Braided, White Cotton

In 100 Ft. Hanks, Sold on Net Weights.

| Size Nos. | 6 | 7 | 8 | 9 | 10 | 12 | 16 |
|-----------|--------------|---|---|---|----|----|----|
| Per Pound | \$ | | | | | | |

AETNA

Hard Braided White Cotton

In 100 Ft. Hanks, Sold on Net Weights.

| Size Nos. | 6 | 7 | 8 | 9 | 10 | 12 |
|-----------|--------------|---|---|---|----|----|
| Per Pound | \$ | | | | | |

One Dozen Hanks in a Package, Two Connected.

WIRE SASH CORD

Composed of 6 Strands and a Cotton Center, 7 Wires to the Strand
Iron, Bright

| Nos. | 29 | 28 1/2 | 28 | 27 1/2 | 27 | 26 |
|-----------------------|---------------|----------------|---------------|----------------|---------------|---------------|
| Diam., Inches. | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Break. Strength, Lbs. | 262 | 510 | 790 | 1417 | 1809 | 2200 |
| Wt. Ft., Lbs. | .006 | .014 | .025 | .056 | .076 | .100 |
| Per Foot | \$0.01 1/4 | .01 1/2 | .01 3/4 | .02 1/4 | .02 3/4 | .03 |

Iron, Galvanized

| Nos. | 29G | 28 1/2 G | 28G | 27 1/2 G | 27G | 26G |
|-----------------------|---------------|----------------|---------------|----------------|---------------|---------------|
| Diam., Inches. | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Break. Strength, Lbs. | 262 | 510 | 790 | 1417 | 1809 | 2200 |
| Wt. Ft., Lbs. | .006 | .014 | .025 | .056 | .076 | .100 |
| Per Foot | \$0.01 1/4 | .02 | .02 1/4 | .03 | .03 1/2 | .04 |

Copper, Bright

| Nos. | 29C | 28 1/2 C | 28C | 27 1/2 C | 27C | 26C |
|-----------------------|---------------|----------------|---------------|----------------|---------------|---------------|
| Diam., Inches. | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ |
| Break. Strength, Lbs. | 140 | 272 | 435 | 792 | 1022 | 1265 |
| Wt. Ft., Lbs. | .007 | .016 | .029 | .064 | .087 | .115 |
| Per Foot | \$0.03 | .03 1/2 | .04 1/2 | .06 | .07 1/2 | .09 |

Annealed Cords Furnished at Same Price as Bright.

CABLE CHAIN



Steel

| Nos. | 75 | 40 | 30 | 10 | 110 |
|----------------------|---------------|---------------|---------------|---------------|---------------|
| Length Link, Inches. | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Wt. Per Reel, Lbs. | 36 | 41 | 50 | 55 | 77 |
| Per Foot | \$0.15 | .09 | .10 | .14 | .17 |

Copper

| Nos. | 75B | 40C | 30C | 10C | 110C |
|----------|--------|-----|-----|-----|------|
| Per Foot | \$0.23 | .22 | .26 | .28 | .45 |

No. 75B is Made of Brass; Nos. 75 and 75B are Used as Bell Hanger Chain.

Nos. 75 and 75B, 500 Feet; Others 250 Feet on a Reel.

SASH CHAIN



Steel, Coppered

Made of Cold Rolled Steel and Strictly High Grade in Every Respect.

| Nos. | 0 | 2 | 1 | A |
|---------------------------|--------|------|------|------|
| Gauge | .028 | .032 | .042 | .054 |
| For Sash (Not Over), Lbs. | 100 | 150 | 250 | 400 |
| Weight Per Reel, Lbs. | 20 | 28 | 32 | 48 |
| Per Foot | \$0.04 | .06 | .08 | .11 |

Steel, Galvanized

| Nos. | 0 | 2 | 1 | A |
|---------------------------|--------|------|------|------|
| Gauge | .028 | .032 | .042 | .054 |
| For Sash (Not Over), Lbs. | 100 | 150 | 250 | 400 |
| Per Foot | \$0.05 | .07 | .09 | .12 |

Red Metal

"Red Metal" Sash Chain is Made from a Special Bronze Mixture. Universally Used.

| Nos. | 0 | 2 | 1 | A |
|---------------------------|--------|------|------|------|
| Gauge | .028 | .032 | .042 | .054 |
| For Sash (Not Over), Lbs. | 100 | 150 | 225 | 300 |
| Weight Per Reel, Lbs. | 24 | 29 | 35 | 55 |
| Per Foot | \$0.06 | .08 | .10 | .13 |

Giant Metal

Made from a Special Bronze Mixture which has no Equal. Used in All Government Buildings.

| Nos. | 0 | 2 | 1 | A |
|---------------------------|--------|------|------|------|
| Gauge | .028 | .032 | .042 | .054 |
| For Sash (Not Over), Lbs. | 125 | 175 | 275 | 400 |
| Weight Per Reel, Lbs. | 25 | 31 | 36 | 57 |
| Per Foot | \$0.08 | .10 | .12 | .15 |

500 Feet on a Reel.

SASH CHAIN FIXTURES



Hook.



Ring.



Iron.

Complete Sets

No. 1—Set Consists of 4 Hooks, 4 Rings, and 4 Irons. Per Set \$0.14

Suitable for use with Nos. A, 1, 2 or 0 Sash Chain. One Set is required for a window of two sashes.

Weight Per Carton 8 Pounds.
25 Sets in a Paper Carton.

CABLE CHAIN FIXTURES



Hook.



Thimble.



Iron.

Complete Sets

No. 10—Set Consists of 4 Hooks, 4 Thimbles and 4 Irons for Use with Nos. 10, 30 and 40 Cable Chains, Weight Per Set $\frac{3}{4}$ Lb. \$0.25No. 110—Set Consists of 4 Hooks, 4 Thimbles and 4 Irons for Use with No. 110 Cable Chain, Weight Per Set $1\frac{1}{10}$ Lbs. .25

One Set is Required for a Window of Two Sashes.

SASH WEIGHTS



Cast Iron, Round

Per Pound

Sash Weights—3 to 25 Lbs. \$

| | | | | | | | |
|------------------------|----|----|----|-----|-----|-----|----|
| Wt. Each, Lbs. | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 |
| Diameter, In. | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ |
| Length, In. | 7 | 8 | 9 | 10½ | 11½ | 12½ | 14 |

| | | | | | | | |
|------------------------|----|----|----|----|----|-----|-----|
| Wt. Each, Lbs. | 6½ | 7 | 7½ | 8 | 8½ | 9 | 9½ |
| Diameter, In. | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ |
| Length, In. | 15 | 16 | 17 | 18 | 19 | 20½ | 21½ |

| | | | | | | |
|---------------------------|-----|-----|----|-----|----|-----|
| Weight Each, Lbs. | 10 | 10½ | 11 | 11½ | 12 | 13 |
| Diameter, In. | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ |
| Length, In. | 22¾ | 24 | 18 | 19 | 20 | 21½ |

| | | | | | | |
|---------------------------|----|----|-----|----|----|-----|
| Weight Each, Lbs. | 14 | 15 | 16 | 17 | 18 | 19 |
| Diameter, In. | 1½ | 1½ | 2 | 2 | 2 | 2 |
| Length, In. | 23 | 25 | 20½ | 22 | 23 | 24½ |

| | | | | | | |
|---------------------------|----|----|----|-----|----|----|
| Weight Each, Lbs. | 20 | 21 | 22 | 23 | 24 | 25 |
| Diameter, In. | 2 | 2 | 2 | 2 | 2 | 2 |
| Length, In. | 26 | 27 | 28 | 29½ | 30 | 32 |

Note—Slight variations must be expected. Square Iron, Lead and Sectional Sash Weights made to order. Prices on Application.

Approximate Weight of Sash Weights Required for the Following Windows, Sizes Listed Are Size of Glass Four Weights Are Required for Each Window

| Two Light Windows | S.S. | D.S. | Two Light Windows | S.S. | D.S. |
|-------------------|------|------|-------------------|------|------|
| 20x24 | 5 | 6 | 30x36 | 8 | 9 |
| 20x28 | 6 | 6 | 30x40 | 9 | 10 |
| 20x32 | 6 | 7 | 30x44 | 10 | 11 |
| 20x36 | 6 | 7 | 30x48 | 11 | 12 |
| 20x40 | 7 | 8 | 32x32 | 9 | 10 |
| 24x30 | 6 | 7 | 32x36 | 9 | 10 |
| 24x32 | 6 | 7 | 32x38 | 10 | 11 |
| 24x36 | 7 | 8 | 32x40 | 10 | 11 |
| 24x40 | 7 | 8 | 32x44 | 11 | 12 |
| 26x30 | 6 | 7 | 32x48 | 12 | 13 |
| 26x32 | 7 | 8 | 34x34 | 9 | 10 |
| 26x34 | 7 | 8 | 34x36 | 10 | 11 |
| 26x36 | 7 | 8 | 34x40 | 11 | 12 |
| 26x40 | 8 | 9 | 34x44 | 12 | 13 |
| 26x44 | 8 | 9 | 34x48 | 13 | 14 |
| 26x48 | 9 | 10 | 36x36 | 10 | 11 |
| 28x32 | 7 | 8 | 36x38 | 11 | 12 |
| 28x36 | 8 | 9 | 36x40 | 11 | 12 |
| 28x40 | 8 | 9 | 36x44 | 12 | 13 |
| 28x44 | 9 | 10 | 36x48 | 13 | 14 |
| 28x48 | 9 | 10 | 40x40 | 12 | 13 |
| 30x30 | 7 | 8 | 40x42 | 13 | 14 |
| 30x32 | 8 | 9 | 40x44 | 13 | 14 |

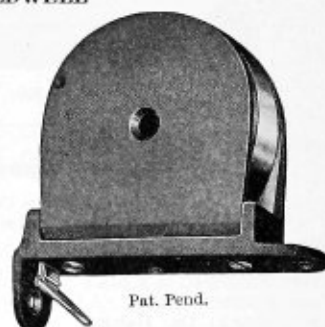
| Four Light Windows | S.S. | D.S. | Eight Light Windows | S.S. |
|--------------------|------|------|---------------------|------|
| 10x24 | 5 | 6 | 10x12 | 5 |
| 10x28 | 6 | 6 | 10x14 | 5 |
| 10x32 | 6 | 7 | 10x16 | 6 |
| 10x36 | 6 | 7 | 12x14 | 6 |
| 10x40 | 7 | 8 | 12x16 | 6 |
| 12x30 | 6 | 7 | 12x18 | 7 |
| 12x32 | 6 | 7 | 12x20 | 8 |
| 12x36 | 7 | 8 | 14x20 | 9 |
| 12x40 | 7 | 8 | 14x24 | 10 |
| 14x32 | 7 | 8 | | |
| 14x34 | 7 | 8 | | |
| 14x36 | 8 | 9 | | |
| 14x40 | 8 | 9 | | |
| 14x44 | 9 | 10 | | |
| 14x48 | 9 | 10 | | |
| 15x24 | 6 | 7 | | |
| 15x28 | 7 | 8 | | |
| 15x32 | 7 | 8 | | |
| 15x36 | 8 | 9 | | |
| 15x40 | 9 | 10 | | |
| 15x44 | 10 | 11 | | |

SASH BALANCES

CALDWELL



Side.



Pat. Pend.

Top.

Uniform Mortise Type, Iron Case and Face, Steel Coil Spring

Face Plate 5½ in. Long, 1¼ in. Wide, Mortise 3½ in. Long, 1¼ in. Wide, 3½ in. Deep.

| Side Nos. | B6 | B8 | B10 | B12 |
|---------------------------------|--------|--------|---------|----------|
| For Sash, Wt. Ea., Lbs. | 4 to 6 | 6 to 8 | 8 to 10 | 10 to 12 |
| Length Tape, Inches. | 30 | 30 | 34 | 38 |
| Weight Per Set, Lbs. | 5¼ | 5½ | 5¾ | 6¼ |
| Per Set of Four. | \$2.00 | 2.20 | 2.40 | 2.60 |

| Side Nos. | B14 | B16 | B18 | B20 |
|---------------------------------|----------|----------|----------|----------|
| For Sash, Wt. Ea., Lbs. | 12 to 14 | 14 to 16 | 16 to 18 | 18 to 20 |
| Length Tape, Inches. | 42 | 42 | 44 | 46 |
| Weight Per Set, Lbs. | 6¼ | 6½ | 7½ | 7¾ |
| Per Set of Four. | \$2.80 | 3.00 | 3.20 | 3.40 |

| Side Nos. | B22 | B26 | B29 | B32 |
|---------------------------------|----------|----------|----------|----------|
| For Sash, Wt. Ea., Lbs. | 20 to 22 | 22 to 26 | 26 to 29 | 29 to 32 |
| Length Tape, Inches. | 50 | 50 | 52 | 52 |
| Weight Per Set, Lbs. | 8 | 8¼ | 8½ | 9 |
| Per Set of Four. | \$4.00 | 4.25 | 4.50 | 4.75 |

Face Plate 6¼ in. Long, 1½ in. Wide, Mortise 4¼ in. Long, 1½ in. Wide, 4¼ in. Deep.

| Side Nos. | C23 | C26 | C29 | C32 |
|---------------------------------|----------|----------|----------|----------|
| For Sash, Wt. Ea., Lbs. | 20 to 23 | 23 to 26 | 26 to 29 | 29 to 32 |
| Length Tape, Inches. | 50 | 50 | 52 | 52 |
| Weight Per Set, Lbs. | 8 | 8¼ | 8½ | 9 |
| Per Set of Four. | \$4.00 | 4.25 | 4.50 | 4.75 |

| Side Nos. | C35 | C38 | C41 | C44 |
|---------------------------------|----------|----------|----------|----------|
| For Sash, Wt. Ea., Lbs. | 32 to 35 | 35 to 38 | 38 to 41 | 41 to 44 |
| Length Tape, Inches. | 54 | 54 | 54 | 54 |
| Weight Per Set, Lbs. | 11 | 13 | 16¼ | 16½ |
| Per Set of Four. | \$5.50 | 5.75 | 6.00 | 6.25 |

| Side Nos. | C47 | C50 | C53 | C56 |
|---------------------------------|----------|----------|----------|----------|
| For Sash, Wt. Ea., Lbs. | 44 to 47 | 47 to 50 | 50 to 53 | 53 to 56 |
| Length Tape, Inches. | 50 | 50 | 50 | 50 |
| Weight Per Set, Lbs. | 16¼ | 17 | 17¼ | 17½ |
| Per Set of Four. | \$6.50 | 9.00 | 9.40 | 9.80 |

Face Plate 8¼ in. Long, 1¾ in. Wide, Mortise 5¼ in. Long, 1¾ in. Wide, 5¼ in. Deep.

| Side Nos. | D50 | D53 | D56 | D59 |
|---------------------------------|----------|----------|----------|----------|
| For Sash, Wt. Ea., Lbs. | 47 to 50 | 50 to 53 | 53 to 56 | 56 to 59 |
| Length Tape, Inches. | 50 | 50 | 50 | 50 |
| Weight Per Set, Lbs. | 26½ | 26¾ | 26¾ | 27 |
| Per Set of Four. | \$9.00 | 9.40 | 9.80 | 10.20 |

| Side Nos. | D62 | D65 | D68 | D71 |
|---------------------------------|----------|----------|----------|----------|
| For Sash, Wt. Ea., Lbs. | 59 to 62 | 62 to 65 | 65 to 68 | 68 to 71 |
| Length Tape, Inches. | 50 | 50 | 50 | 50 |
| Weight Per Set, Lbs. | 27¼ | 27½ | 27¾ | 28 |
| Per Set of Four. | \$10.60 | 11.00 | 11.40 | 11.80 |

| Side Nos. | D75 | D78 | D81 | D84 |
|-------------------------------------|----------|----------|----------|----------|
| For Sash, Weight Each, Lbs. | 71 to 75 | 75 to 78 | 78 to 81 | 81 to 84 |
| Length Tape, Inches. | 50 | 50 | 50 | 50 |
| Weight Per Set, Lbs. | 28¼ | 28½ | 28¾ | 29 |
| Per Set of Four. | \$12.20 | 12.60 | 13.00 | 13.40 |

| Side Nos. | D84 | D87 | D90 | D93 |
|-------------------------------------|----------|----------|----------|----------|
| For Sash, Weight Each, Lbs. | 81 to 84 | 84 to 87 | 87 to 90 | 90 to 93 |
| Length Tape, Inches. | 50 | 50 | 50 | 50 |
| Weight Per Set, Lbs. | 29 | 29¼ | 29½ | 29¾ |
| Per Set of Four. | \$13.40 | 13.80 | 14.20 | 14.60 |

| Side Nos. | D93 | D96 | D100 | D103 |
|-------------------------------------|----------|----------|-----------|------------|
| For Sash, Weight Each, Lbs. | 90 to 93 | 93 to 96 | 96 to 100 | 100 to 103 |
| Length Tape, Inches. | 50 | 50 | 50 | 50 |
| Weight Per Set, Lbs. | 29¾ | 30 | 30¼ | 30½ |
| Per Set of Four. | \$14.60 | 15.00 | 15.40 | 15.80 |

Note—Top Balances furnished when ordered at same price. Prefix 0 to number to indicate top balance.

One Set in a Box, with Screws.

SASH PULLEYS



Wrought Steel, Cone Bearing

| | Per Dozen |
|--|-----------|
| No. 109—2 in. Wheel, 2 1/2 x 1 in. Mortise, Black Weather-proof Finish | \$0.80 |
| No. 110—2 in. Wheel, 2 1/2 x 1 1/8 in. Mortise, Black Weather-proof Finish | .80 |

The Automatic Saw-Tooth Fastening Device Reduces Labor Cost. Simply drive the pulley in the mortise in the usual way—the saw teeth hold it securely.

No counter-boring for face plate, no cutting or trimming.

Weight Per Dozen 1 1/2 Pounds.

Open Stock.



No. 121 1/2

Cast Iron

| | Per Dozen |
|---|-----------|
| No. 121 1/2—2 in. Wheel, 3/8 in. Axle, 4 x 1 in. Front, Round Groove for 3/8 in. Cord, Plain Finish | \$1.26 |

Weight Per Dozen 4 3/8 Pounds.

Open Stock.



No. 7 1/2

Cast Iron

No. 7 1/2—Lacquered Front, Polished Wheel, Grooved for Chain or Cord.

| Size Wheel, Inches... | 2 | 2 1/4 |
|-----------------------|---------------|---------------|
| Front, Inches..... | 4 1/2 x 1 1/8 | 5 1/2 x 1 1/8 |
| Axle, Inches..... | 1/4 | 3/8 |
| Weight Dozen, Lbs... | 6 3/4 | 10 1/2 |
| Per Dozen..... | \$2.40 | 2.90 |
| Size Wheel, Inches... | 2 1/2 | 3 |
| Front, Inches..... | 5 3/4 x 1 1/8 | 6 1/2 x 1 1/8 |
| Axle, Inches..... | 3/8 | 1/2 |
| Weight Dozen, Lbs... | 12 | 15 |
| Per Dozen..... | \$3.40 | 5.20 |

One Dozen in a Box.



No. 011 1/2

Cast Iron

No. 011 1/2—Plain Front, Round Groove.

| Size Wheel, Inches... | 2 | 2 1/4 | 2 1/2 |
|-----------------------|-----------|---------------|---------------|
| For Cord, Inches... | 3/8 | 3/8 | 3/8 |
| Front, Inches..... | 4 3/8 x 1 | 5 1/4 x 1 1/8 | 5 3/4 x 1 1/8 |
| Axle, Inches..... | 1/4 | 3/8 | 1/2 |
| Weight Dozen, Lbs. | 4 1/2 | 6 1/4 | 8 |
| Per Dozen..... | \$1.30 | 1.80 | 2.20 |



No. 011

Cast Iron

No. 011—Plain Front, Round Groove.

| Size Wheel, Inches... | 2 | 2 1/2 | 2 3/4 |
|-----------------------|-----------|-----------|---------------|
| For Cord, Inches... | 3/8 | 3/8 | 3/8 |
| Front, Inches..... | 4 1/2 x 1 | 4 3/4 x 1 | 5 1/2 x 1 1/8 |
| Axle, Inches..... | 1/4 | 3/8 | 1/2 |
| Weight Dozen, Lbs. | 4 1/2 | 6 1/4 | 8 |
| Per Dozen..... | \$1.30 | 1.80 | 2.20 |

Open Stock.

SASH PULLEYS

Cast Iron, Plain Bearing
Round Groove for Chain or Cord.

No. Y609R—Amber Bronzed, Galvanized Wheel

| Size Wheel, Inches... | 2 | 2 1/4 |
|-----------------------|---------------|---------------|
| Front, Inches..... | 4 1/2 x 1 1/8 | 5 1/4 x 1 1/8 |
| Wt. Dozen, Lbs... | 6 1/2 | 10 1/4 |
| Per Dozen..... | \$3.60 | 4.40 |
| Size Wheel, Inches... | 2 1/2 | 3 |
| Front, Inches..... | 5 3/4 x 1 1/8 | 6 x 1 1/8 |
| Wt. Dozen, Lbs... | 12 1/4 | 15 |
| Per Dozen..... | \$5.20 | 6.80 |

No. B609R—Bronzed Plated, Galvanized Wheel

| Size Wheel, Inches... | 2 | 2 1/4 |
|-----------------------|--------|-------|
| Per Dozen..... | \$5.20 | 6.00 |
| Size Wheel, Inches... | 2 1/2 | 3 |
| Per Dozen..... | \$6.80 | 8.40 |

Cast Iron, Roller Bearing

Round Groove for Chain or Cord.

No. Y1609R—Amber Bronzed, Galvanized Wheel

| Size Wheel, Inches... | 2 | 2 1/4 | 2 1/2 | 3 |
|-----------------------|---------------|---------------|---------------|-----------|
| Front, Inches..... | 4 1/2 x 1 1/8 | 5 1/4 x 1 1/8 | 5 3/4 x 1 1/8 | 6 x 1 1/8 |
| Wt. Dozen, Lbs... | 6 1/4 | 9 1/4 | 10 1/4 | 13 1/4 |
| Per Dozen..... | \$4.80 | 5.60 | 6.40 | 8.00 |

Wrought Bronze, Roller Bearing

Round Groove for Chain or Cord.

No. B1609 1/2 R—Polished Bronze, Galvanized Wheel

| Size Wheel, Inches... | 2 | 2 1/4 | 2 1/2 | 3 |
|-----------------------|---------------|---------------|---------------|-----------|
| Front, Inches..... | 4 1/2 x 1 1/8 | 5 1/4 x 1 1/8 | 5 3/4 x 1 1/8 | 6 x 1 1/8 |
| Wt. Dozen, Lbs... | 7 | 9 3/4 | 11 3/4 | 16 |
| Per Dozen..... | \$7.60 | 8.40 | 9.20 | 10.80 |

One-half Dozen in a Box, with Screws.

SIDE SASH PULLEYS

Cast Iron

Grooved for 3/8 in. Chain.

No. 98—Japanned

| Size Wheel, In... | 2 | 2 1/2 |
|-------------------|--------|-------|
| Wt. Doz., Lbs... | 4 1/4 | 6 3/4 |
| Per Dozen..... | \$3.00 | 4.40 |

One Dozen in a Box.



HOT HOUSE PULLEYS



No. 1743



No. 1747

Cast Iron

No. 1743—Single Wheel, Japanned

| Size Wheel, Inches..... | 1 3/4 | 2 | 2 1/2 |
|--------------------------|--------|--------|--------|
| For Rope, Inches..... | 3/4 | 3/8 | 3/8 |
| Weight Per Dozen, Lbs... | 7 | 10 1/4 | 16 3/4 |
| Per Dozen..... | \$2.80 | 3.60 | 5.80 |

2 1/2 in., One-half Dozen; Others, One Dozen in a Box.

No. 1747—Double Wheel, Japanned

| Size Wheel, Inches..... | 1 3/4 | 2 | 2 1/2 |
|--------------------------|--------|--------|--------|
| For Rope, Inches..... | 3/4 | 3/8 | 3/8 |
| Weight Per Dozen, Lbs... | 10 | 13 3/4 | 23 1/4 |
| Per Dozen..... | \$5.35 | 5.40 | 8.60 |

1 3/4 in., One Dozen; Others, One-half Dozen in a Box.

CEILING PULLEYS



Cast Iron

No. 1666—Japanned

| | | | |
|----------------------------|--------|------|--------|
| Size Wheel, Inches..... | 1 3/4 | 2 | 2 1/2 |
| For Rope, Inches..... | 1/4 | 5/8 | 3/4 |
| Weight Per Dozen, Lbs..... | 6 | 8 | 11 3/4 |
| Per Dozen | \$2.00 | 2.85 | 3.85 |

One Dozen in a Box.

SWING PULLEYS

Cast Brass

No. 1670—Single Wheel, Polished

| | | |
|----------------------------|--------|------|
| Size Wheel, Inches..... | 5/8 | 3/4 |
| Weight Per Dozen, Lbs..... | 1 1/8 | 3/4 |
| Per Dozen | \$3.35 | 4.00 |

Three Dozen in a Box.



No. 1670

No. 1680—Double Wheel, Polished

| | | |
|----------------------------|--------|-------|
| Size Wheel, Inches..... | 5/8 | 3/4 |
| Weight Per Dozen, Lbs..... | 1 1/8 | 1 7/8 |
| Per Dozen | \$5.20 | 6.00 |

Three Dozen in a Box.



No. 1680

SIDE PULLEYS

No. 1673—Wrought Brass, Polished

| | | | |
|----------------------------|--------|-------|------|
| Size Wheel, Inches..... | 1/2 | 5/8 | 3/4 |
| Weight Per Dozen, Lbs..... | 1 1/8 | 1 1/8 | 1 |
| Per Dozen | \$2.80 | 3.20 | 5.60 |

Three Dozen in a Box, with Screws.



No. 1673



Cast Iron

No. 1770—Single Wheel, Japanned

| | | | | | |
|------------------------|--------|-------|-------|-------|-------|
| Size Wheel, Inches.... | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| For Rope, Inches.... | 1/8 | 1/4 | 1/4 | 1/4 | 1/4 |
| Weight Dozen, Lbs.... | 1 1/4 | 1 1/2 | 2 1/4 | 2 1/2 | 3 1/4 |
| Per Dozen | \$1.15 | 1.20 | 1.30 | 1.40 | 2.00 |

| | | | | |
|-------------------------|--------|-------|--------|--------|
| Size Wheel, Inches..... | 2 | 2 1/2 | 3 | 4 |
| For Rope, Inches..... | 1/8 | 3/8 | 1/2 | 5/8 |
| Weight Dozen, Lbs..... | 4 1/2 | 7 3/8 | 12 1/4 | 33 1/2 |
| Per Dozen | \$2.10 | 3.20 | 4.65 | 11.20 |

3/4 to 1 3/4 in., Two Dozen; 2 in., One Dozen; 2 1/2 and 3 in., One-half Dozen; 4 in., One-quarter Dozen in a Box.



Cast Iron

No. 1771—Double Wheel, Japanned

| | | | | | | |
|--------------------|--------|-------|-------|-------|-------|--------|
| Size Wheel, In.... | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/2 |
| For Rope, In.... | 1/4 | 1/4 | 1/4 | 1/4 | 5/8 | 3/4 |
| Wt. Dozen, Lbs.... | 1 1/2 | 3 | 4 1/4 | 5 1/2 | 7 1/2 | 16 1/2 |
| Per Dozen | \$2.00 | 2.35 | 2.80 | 3.35 | 4.00 | 7.20 |

2 1/2 in., One-half Dozen; 2 in., One Dozen; Others, Two Dozen in a Box.

UPRIGHT PULLEYS

Cast Brass

Per Dozen

No. 1674—5/8 in. Wheel, Polished....\$3.70
Weight Per Dozen 3/4 Pound.

Three Dozen in a Box, with Screws.



Cast Iron

No. 1790—Japanned

| | | |
|------------------------|--------|-------|
| Size Wheel, Inches.... | 1 3/4 | 2 |
| For Rope, Inches..... | 1/4 | 3/8 |
| Weight Per Dozen, Lbs. | 3 1/2 | 3 3/8 |
| Per Dozen | \$1.65 | 2.00 |

| | | |
|------------------------|--------|-------|
| Size Wheel, Inches.... | 2 1/2 | 3 |
| For Rope, Inches..... | 3/8 | 1/2 |
| Weight Per Dozen, Lbs. | 5 1/2 | 7 1/4 |
| Per Dozen | \$2.55 | 4.00 |

2 1/2 in., One Dozen; Others, Two Dozen in a Box.



SCREW PULLEYS

Cast Brass

No. 1651—Single Wheel, Polished

| | | |
|----------------------------|--------|------|
| Size Wheel, Inches..... | 1 1/2 | 5/8 |
| For Rope, Inches..... | 1/8 | 1/8 |
| Weight Per Dozen, Lbs..... | 7/8 | 1 |
| Per Dozen | \$2.40 | 2.80 |

| | | |
|----------------------------|--------|-------|
| Size Wheel, Inches..... | 3/4 | 1 |
| For Rope, Inches..... | 1/8 | 1/8 |
| Weight Per Dozen, Lbs..... | 1 1/8 | 1 1/4 |
| Per Dozen | \$3.35 | 4.00 |

One Dozen in a Box.



Cast Iron, Wrought Steel Screw

No. 1658—Single Wheel, Japanned

| | | | |
|--------------------|--------|-------|-------|
| Size Wheel, In.... | 3/4 | 1 | 1 1/4 |
| For Rope, In.... | 1/8 | 1/4 | 1/4 |
| Wt. Dozen, Lbs.... | 1 1/8 | 1 1/8 | 1 1/4 |
| Per Dozen | \$0.70 | .75 | .85 |

| | | | |
|--------------------|--------|-------|-------|
| Size Wheel, In.... | 1 1/2 | 1 3/4 | 2 |
| For Rope, In.... | 1/8 | 1/8 | 1/8 |
| Wt. Dozen, Lbs.... | 1 1/2 | 2 1/4 | 2 1/2 |
| Per Dozen | \$1.00 | 1.20 | 1.35 |

| | | | |
|--------------------|--------|-------|--------|
| Size Wheel, In.... | 2 1/2 | 3 | 4 |
| For Rope, In.... | 3/8 | 1/2 | 5/8 |
| Wt. Dozen, Lbs.... | 4 1/4 | 6 1/4 | 17 1/4 |
| Per Dozen | \$2.00 | 3.00 | 7.10 |

2 in. and Smaller, Two Dozen; Others, One Dozen in a Box.



Cast Iron, Wrought Steel Screw

Per Dozen

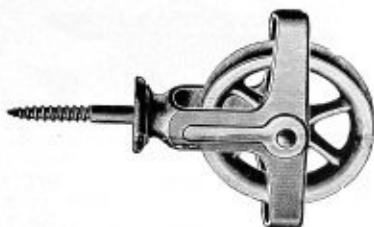
No. 1726—1 3/4 in., Double Wheel, Japanned, for 1/8 in. Rope..\$2.20

Weight Per Dozen 4 Pounds.

One Dozen in a Box.



SCREW PULLEYS



Cast Iron, Wrought Steel Screw

No. 1662—Incased, Japanned

| | | | | | | | |
|-------------------|--------|-------|-------|-------|-------|------|--------|
| Size Wheel, In... | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/2 | 3 | 4 |
| For Rope, In... | 1/4 | 1/4 | 1/2 | 3/8 | 3/8 | 1/2 | 5/8 |
| Wt. Dozen, Lbs. | 1 3/4 | 2 | 2 1/2 | 3 1/2 | 5 1/2 | 8 | 22 1/2 |
| Per Dozen | \$1.80 | 1.85 | 2.00 | 2.10 | 3.00 | 4.00 | 12.00 |

4 in., One-third Dozen; Others, One Dozen in a Box.

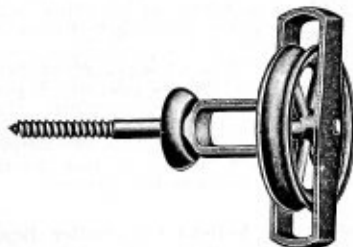


Cast Iron, Wrought Steel Screw.

No. 1663—Incased, Japanned

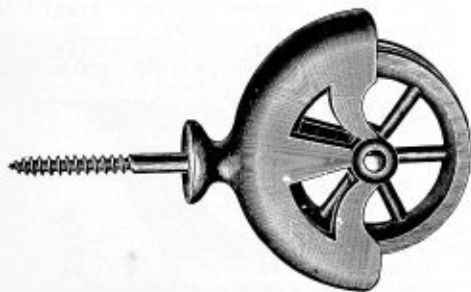
| | | |
|------------------------|--------|------|
| Size Wheel, Inches | 1 1/2 | 2 |
| For Rope, Inches | 1/2 | 3/4 |
| Weight Per Dozen, Lbs. | 2 1/4 | 4 |
| Per Dozen | \$1.85 | 2.80 |

One Dozen in a Box.



Cast Iron, Wrought Steel Screw

| | |
|--|-----------|
| No. 1664—2 in. Wheel, 2 in. Shank, Japanned, for | Per Dozen |
| 1/2 in. Rope | \$2.35 |
| Weight Per Dozen 3 1/2 Pounds. | |
| One Dozen in a Box. | |



Cast Iron, Wrought Steel Screw

No. 1730—Incased, Japanned

| | | | |
|------------------------|--------|-------|-------|
| Size Wheel, Inches | 2 | 2 1/2 | 3 |
| For Rope, Inches | 1/2 | 3/8 | 1/2 |
| Weight Per Dozen, Lbs. | 4 1/4 | 7 3/4 | 8 3/4 |
| Per Dozen | \$2.80 | 3.60 | 4.80 |

One Dozen in a Box.

AWNING PULLEYS

Cast Iron

No. 1758—Single Wheel, Solid Eye, Japanned

| | | | | |
|--------------------|--------|-------|-------|-------|
| Size Wheel, Inches | 1/2 | 3/4 | 1 | 1 1/4 |
| For Rope, Inches | 1/8 | 1/8 | 1/8 | 1/8 |
| Weight Dozen, Lbs. | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| Per Dozen | \$0.60 | .75 | .85 | |
| Size Wheel, Inches | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| For Rope, Inches | 1/4 | 1/4 | 1/4 | 1/4 |
| Weight Dozen, Lbs. | 2 | 2 1/2 | 4 | |
| Per Dozen | \$0.95 | 1.20 | 1.50 | |
| Size Wheel, Inches | 1 3/4 | 2 | 2 1/2 | |
| For Rope, Inches | 3/8 | 1/2 | 5/8 | |
| Weight Dozen, Lbs. | 6 3/4 | 9 3/4 | 17 | |
| Per Dozen | \$2.10 | 2.95 | 5.40 | |

No. 1758 1/2—Single Wheel, Solid Eye, Galvanized

| | | | | |
|---------------------|--------|-------|------|-------|
| Size, Wheel, Inches | 1/2 | 3/4 | 1 | 1 1/4 |
| Per Dozen | \$0.90 | 1.05 | 1.15 | 1.25 |
| Size Wheel, Inches | 1 1/2 | 1 3/4 | 2 | 2 1/2 |
| Per Dozen | \$2.05 | 2.85 | 3.55 | 6.10 |

1 1/2 in. and Smaller, One Dozen; Others, One-half Dozen in a Box.

Cast Iron

No. 1759—Double Wheel, Solid Eye, Japanned

| | | | |
|--------------------|--------|--------|--------|
| Size Wheel, In... | 3/4 | 1 | 1 1/4 |
| For Rope, In... | 1/2 | 1/4 | 1/4 |
| Wt. Dozen, Lbs. | 2 1/2 | 3 1/2 | 3 1/2 |
| Per Dozen | \$1.30 | 1.50 | 1.85 |
| Size Wheel, Inches | 1 1/2 | 1 3/4 | 2 |
| For Rope, Inches | 1/2 | 3/8 | 3/8 |
| Weight Dozen, Lbs. | 7 1/2 | 12 3/4 | 12 3/4 |
| Per Dozen | \$2.60 | 4.00 | |
| Size Wheel, Inches | 2 | 2 1/2 | |
| For Rope, Inches | 1/2 | 5/8 | |
| Weight Dozen, Lbs. | 16 1/2 | 26 1/4 | |
| Per Dozen | \$5.20 | 8.60 | |

No. 1759 1/2—Double Wheel, Solid Eye, Galvanized

| | | | | |
|--------------------|--------|------|-------|-------|
| Size Wheel, Inches | 3/4 | 1 | 1 1/4 | 1 1/2 |
| Per Dozen | \$1.65 | 2.00 | 2.45 | 3.45 |
| Size Wheel, Inches | 1 3/4 | 2 | 2 1/2 | |
| Per Dozen | \$4.40 | 6.40 | 10.65 | |

1 1/2 in. and Smaller, One Dozen; Others, One-half Dozen in a Box.

Cast Iron, Malleable Iron Eye

No. 1768—Single Wheel, Swivel Eye, Japanned

| | | |
|------------------------|--------|-------|
| Size Wheel, Inches | 1/2 | 3/4 |
| For Rope, Inches | 1/8 | 1/8 |
| Weight Per Dozen, Lbs. | 1 1/2 | 1 1/2 |
| Per Dozen | \$0.80 | .90 |
| Size Wheel, Inches | 3/4 | 1 |
| For Rope, Inches | 1/8 | 1/4 |
| Weight Per Dozen, Lbs. | 1 1/2 | 2 |
| Per Dozen | \$1.00 | 1.15 |

| | | | | |
|------------------------|--------|-------|-------|-------|
| Size Wheel, Inches | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| For Rope, Inches | 1/4 | 1/4 | 3/8 | 1/2 |
| Weight Per Dozen, Lbs. | 3 | 4 1/4 | 6 3/4 | 7 3/4 |
| Per Dozen | \$1.55 | 2.20 | 3.60 | 4.45 |

No. 1768 1/2—Single Wheel, Swivel Eye, Galvanized

| | | | | |
|--------------------|--------|-------|-------|-------|
| Size Wheel, Inches | 1/2 | 3/4 | 1 | 1 1/4 |
| Per Dozen | \$1.00 | 1.10 | 1.35 | 1.60 |
| Size Wheel, Inches | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Per Dozen | \$2.00 | 3.00 | 4.40 | 5.35 |

1 1/2 in. and Smaller, One Dozen; Others, One-half Dozen in a Box.

AWNING PULLEYS

Cast Iron, Malleable Iron Eye

No. 1769—Double Wheel, Swivel Eye, Japanned



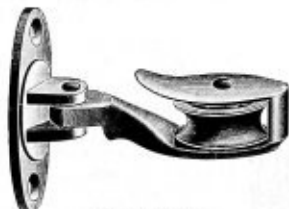
| | | | |
|---------------------|--------|--------|--------|
| Size Wheel, Inches. | 1½ | 5/8 | ¾ |
| For Rope, Inches. | ¾ | 1/8 | 1/8 |
| Weight Dozen, Lbs. | 1 1/8 | 1 3/8 | 2 1/4 |
| Per Dozen | \$1.45 | 1.55 | 1.65 |
| Size Wheel, Inches. | 1 | 1 1/4 | 1 1/2 |
| For Rope, Inches. | ¾ | 1/8 | 1/8 |
| Weight Dozen, Lbs. | 3 | 4 3/8 | 6 3/8 |
| Per Dozen | \$1.90 | 2.40 | 3.55 |
| Size Wheel, Inches. | 1 1/4 | 1 3/4 | 2 |
| For Rope, Inches. | ¾ | 1/8 | 1/8 |
| Weight Dozen, Lbs. | 10 3/8 | 13 3/4 | 18 3/4 |
| Per Dozen | \$5.20 | 6.70 | |

No. 1769 1/2—Double Wheel, Swivel Eye, Galvanized

| | | | | |
|---------------------|--------|-------|-------|------|
| Size Wheel, Inches. | 1½ | 5/8 | ¾ | 1 |
| Per Dozen | \$1.60 | 1.75 | 2.20 | 2.55 |
| Size Wheel, Inches. | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Per Dozen | \$3.35 | 4.45 | 6.40 | 7.40 |

1 1/2 in. and Smaller, One Dozen; Others, One-half Dozen in a Box.

CLOTHES LINE PULLEYS



Cast Iron

No. 1780 1/2—1 1/4 in. Wheel, Galvanized.....\$2.70
 Weight Per Dozen 3 3/4 Pounds.
 One Dozen in a Box.



Cast Iron, Malleable Iron Eye

No. 1733 1/2—Swivel Eye, Galvanized

| | | |
|-----------------|--------|-------|
| Size Wheel, In. | 2 1/2 | 3 |
| Wt. Dozen, Lbs. | 7 3/8 | 9 1/2 |
| Per Dozen | \$4.00 | 5.35 |

One Dozen in a Box.

Cast Iron, Malleable Iron Eye

Per Dozen

No. 1732 1/2—2 1/2 in. Wheel,
 Swivel Eye, Galvanized..\$4.95

Weight Per Dozen 7 3/4 Pounds.

One Dozen in a Box.



DUMB WAITER PULLEYS



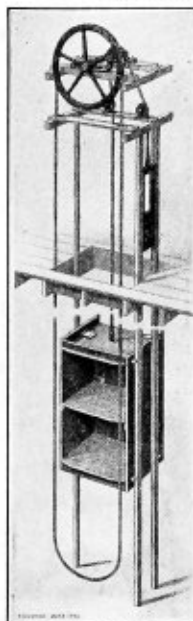
Cast Iron

| | | | |
|------------------------|---------|---------------|-----------|
| Nos. | 103 | 107 | 108 |
| Size Wheel, Inches. | 3 | 4 | 5 |
| For Rope, Inches. | 1 1/2 | 5/8 | 5/8 |
| Front, Inches | 6x1 1/8 | 8 3/4 x 2 1/8 | 9 1/4 x 2 |
| Weight Per Dozen, Lbs. | 15 | 24 | 30 |
| Per Dozen | \$4.00 | 13.00 | 22.00 |

No. 103, One Dozen; Others, One-third Dozen in a Package.

DUMB WAITER OUTFITS

SEDGWICK AUTOMATIC BRAKE



The Sedgwick Automatic Brake Dumb Waiter Machines are a great improvement over all Automatic Lock and other Self-retaining Machines, and are especially designed for purchasers who consider just as carefully What They Are Getting, as what they are paying.

The Automatic Brake is independently supported, thus relieving the machine of all end thrust, strain, and unnecessary wear.

The Brake does not lock fast, but is applied and regulated by the load, holding the car securely at any point, allowing it to be raised and lowered smoothly and easily without the jumping and jarring common to all other Automatic Dumb Waiters.

The capacity given below is based on what a pull of 10 pounds on the Hand Rope will lift.

These outfits are amply strong for occasional or test loads of double the capacity given.

Steel Shafting, Anti-friction Roller Bearings

Prices given below are for Complete Outfits 20 ft. Over All or Less.

Single Face

| Nos. | 1 | 2 | 3 | 4 |
|--------------------------------|---------|--------|--------|--------|
| Diam. Hand Wheel, In. | 16 | 20 | 24 | 30 |
| Width Car, Inches. | 20 | 24 | 28 | 34 |
| Depth Car, Inches. | 16 | 20 | 24 | 30 |
| Space Required, Inches | 23x19 | 27x23 | 31x27 | 37x33 |
| Capacity, Lbs. | 20 | 25 | 30 | 40 |
| Shipping Weight, Lbs. | 250 | 300 | 350 | 450 |
| Each | \$80.00 | 100.00 | 120.00 | 140.00 |
| Add for Extra Height, Per Foot | .60 | .70 | .75 | .80 |

Double Face

Double Face Fixtures require a Longer Shaft, Extra Hand Wheel and Hand Rope.

| Nos. | 1 | 2 | 3 | 4 |
|--------------------------------|---------|--------|--------|--------|
| Diam. Hand Wheel, In. | 16 | 20 | 24 | 30 |
| Width Car, Inches. | 20 | 24 | 28 | 34 |
| Depth Car, Inches. | 16 | 20 | 24 | 30 |
| Space Required, Inches | 23x20 | 27x24 | 31x28 | 37x34 |
| Capacity, Lbs. | 20 | 25 | 30 | 40 |
| Shipping Weight, Lbs. | 300 | 350 | 400 | 500 |
| Each | \$90.00 | 112.50 | 135.00 | 160.00 |
| Add for Extra Height, Per Foot | .95 | 1.00 | 1.05 | 1.10 |

Note—We can furnish complete Dumb Waiter Outfits for all requirements. Prices on Request and Receipt of Specifications.

SASH ROLLERS



No. 593—Cast Iron, Japanned

| | | | |
|------------------------|--------|---------------|---------------|
| Size, Inches | 1 | 1 1/4 | 1 1/2 |
| Case, Inches | 1x3 | 1 1/4 x 3 1/4 | 1 1/2 x 3 3/4 |
| Diameter Wheel, Inches | 1 1/4 | 1 1/2 | 1 3/4 |
| Weight Per Dozen, Lbs. | 3 1/4 | 5 1/4 | 8 |
| Per Dozen | \$1.10 | 1.50 | 2.20 |

One Dozen in a Box.



No. 594—Cast Iron, Japanned

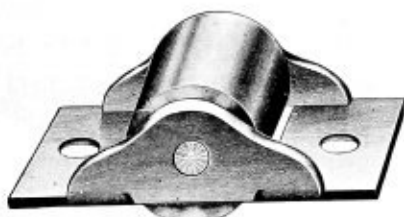
| | | | | | |
|---------------------|-------------|-------------|---------|-----------|---------------|
| Size, Inches | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 |
| Case, Inches | 5/8 x 1 1/2 | 3/4 x 1 5/8 | 7/8 x 2 | 1 x 2 1/8 | 1 1/4 x 2 1/4 |
| Diam. of Wheel, In. | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 |
| Wt. Per Dozen, Lbs. | 5/8 | 7/8 | 1 1/8 | 1 3/8 | 1 7/8 |
| Per Dozen | \$0.46 | .57 | .73 | .88 | 1.05 |

Six Dozen in a Box.

No. 594 1/4—Cast Brass, Polished, Wrought Brass Wheel

| | | | | | |
|---------------------|-------------|-------------|---------|-----------|---------------|
| Size, Inches | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 |
| Case, Inches | 5/8 x 1 1/2 | 3/4 x 1 5/8 | 7/8 x 2 | 1 x 2 1/8 | 1 1/4 x 2 1/4 |
| Diam. of Wheel, In. | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 |
| Wt. Per Dozen, Lbs. | 7/8 | 1 1/8 | 2 | 2 3/4 | 4 |
| Per Dozen | \$2.20 | 2.65 | 3.60 | 4.15 | 5.05 |

Two Dozen in a Box, with Screws.



No. 17059—Wrought Steel

| | | | |
|---------------------------|-------------|-------------|-------|
| Size, Inches | 5/8 | 3/4 | 1 |
| Case, Inches | 5/8 x 1 1/2 | 3/4 x 1 5/8 | 1 x 2 |
| Diameter of Wheel, Inches | 5/8 | 3/4 | 1 |
| Weight Per Dozen, Lbs. | 5/8 | 7/8 | 1 1/4 |
| Per Gross | \$9.84 | 12.00 | 15.84 |

One-quarter Gross in a Box.

DOUBLE ROLLERS



Wrought Steel, Nickel Plated

For use on all Glass Sliding Doors that are made without frames.

No. 17062—1 1/2 x 2 7/8 in. Frame, 1 in. Diameter Fibre Roller with Brass Bushings, with Anti-Friction Center Guide to Prevent Door from Striking...\$5.00

Weight Per Dozen 1 1/2 Pounds.

One Dozen in a Box.

SHUTTER SHEAVES



Wrought Steel

Per Dozen

No. 750—5/8 in. Wrought Iron Turned Wheel, 5/8 x 1 1/2 in. Face, for Use with Nos. 990 1/2 or 991 1/2 Track\$1.05

Weight Per Dozen 7/8 Pound.
Two Dozen in a Box.



Cast Iron, Japanned

Per Dozen

No. 752—1 1/4 in. Polished Wheel, 5/8 x 2 1/2 in. Face, for Use with Nos. 990 1/4, 990 1/2 or 991 1/2 Track...\$2.15

Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box.

Cast Brass, Polished

Per Dozen

No. 752 3/4—1 1/4 in. Turned Wheel, 5/8 x 2 1/2 in. Face, for Use with Nos. 990 1/4, 990 1/2 or 991 1/2 Track...\$8.00

Weight Per Dozen 1 3/4 Pounds.
One Dozen in a Box, with Screws.



Cast Iron Japanned

Per Dozen

No. 753—1 1/2 in. Polished Cast Iron Wheel, 5/8 x 3 1/2 in. Face, Weight Per Dozen 2 1/2 Lbs.....\$2.65

No. 753 1/4—1 1/2 in. Cast Brass Turned Wheel, 5/8 x 3 1/2 in. Cast Iron Face, Weight Per Dozen 2 5/8 Lbs.. 4.25

For Use with Nos. 990 1/4, 990 1/2 or 991 1/2 Track.
One Dozen in a Box.



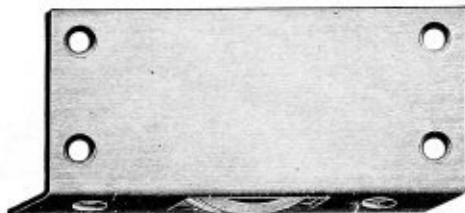
Cast Iron, Japanned

Per Dozen

No. 588—1 3/4 in. Polished Cast Iron Wheel, 1x3 in. Face, Weight Per Dozen 3 1/2 Lbs.....\$3.00

No. 588 1/2—1 3/4 in. Cast Brass Turned Wheel, 1x3 3/4 in. Cast Iron Face, Weight Per Dozen 4 1/4 Lbs.. 7.00

For Use with Nos. 990 or 990 1/2 Track.
One Dozen in a Box.



Wrought Steel, Ball Bearing

Per Dozen

No. 0580—2 in. Polished Cast Iron Wheel, 2 1/2 x 4 1/4 in. Case, for Use with Nos. 990 1/2, 990 1/4 or 991 1/2 Track\$13.35

Weight Per Dozen 7 Pounds.
One Dozen in a Box.

SLIDING DOOR SHEAVES



Wrought Steel, Ball Bearing Per Dozen

- No. 16998—Wrought Steel Throughout, Hardened Steel Balls, Case $\frac{3}{16}$ in. Thick, Made to Drive in, for Use with No. 17297 Track.....\$2.10
Weight Per Dozen $1\frac{1}{4}$ Pounds.
Three Dozen in a Box.



Wrought Steel, Ball Bearing Per Dozen

- No. 16998 $\frac{1}{2}$ —Wrought Steel Throughout, Hardened Steel Balls, Case $\frac{1}{2}$ in. Thick, for Use with No. 17297 Track.....\$3.50
Weight Per Dozen $1\frac{1}{4}$ Pounds.
Three Dozen in a Box.



Wrought Steel, Ball Bearing Per Dozen

- No. 16999—For Heavy Doors, Wrought Steel Throughout, Hardened Steel Balls, Case $\frac{1}{2}$ in. Thick, for Use with No. 17298 Track.....\$4.75
Weight Per Dozen $1\frac{1}{4}$ Pounds.
Three Dozen in a Box.



Wrought Steel, Ball Bearing Per Dozen

- No. 16994—Wrought Steel Throughout, Hardened Steel Balls, Seamless Steel Roller Tire, Case $\frac{3}{8}$ in. Thick, for Use with No. 17297 Track.....\$1.35
Weight Per Dozen $\frac{3}{4}$ Pound.
Three Dozen in a Box.



Wrought Steel, Ball Bearing

- 2 in. Wheel, $\frac{5}{8} \times 4\frac{1}{8}$ in. Face, $\frac{3}{8}$ in. Hardened Steel Balls. Per Dozen
No. 17028D—For Use with No. 17297 Track.....\$2.50
No. 17028E—For Use with No. 17298 Track.....2.50
Weight Per Dozen $1\frac{1}{4}$ Pounds.
Three Dozen in a Box.

SLIDING DOOR SHEAVES

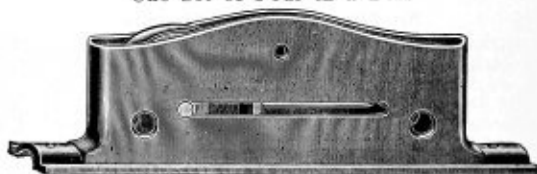


Cast Iron, Roller Bearing

No. 9—Japanned Case, Polished Wheel

| | | |
|----------------------------------|-------------------------|-------------------------|
| Diameter Wheel, Inches..... | 3 | 4 |
| Thickness Wheel, Inches..... | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Face, Inches..... | $1\frac{1}{8} \times 6$ | $1\frac{1}{8} \times 7$ |
| Weight Per Set of Four, Lbs..... | 3 $\frac{3}{4}$ | 6 |
| Per Single Dozen..... | \$9.60 | 15.20 |

For Use with Nos. 990 or 990 $\frac{1}{2}$ Track.
One Set of Four in a Box.



Cast Iron, Turned Wheel

No. 500—Japanned

| | | |
|----------------------------------|-------------------------|--------------------------|
| Diameter Wheel, Inches..... | 3 | 4 |
| To Run, Inches..... | 42 | 46 |
| Face, Inches..... | $1\frac{1}{8} \times 9$ | $1\frac{1}{8} \times 11$ |
| Weight Per Set of Four, Lbs..... | 6 $\frac{1}{4}$ | 9 $\frac{1}{2}$ |
| Per Single Dozen..... | \$12.00 | 15.20 |

For Use with Nos. 990 or 990 $\frac{1}{2}$ Track.
One Set of Four in a Box.

SLIDING DOOR TRACK



Wrought Steel, Copper Plated

In 8 and 10 ft. Lengths. Per Foot

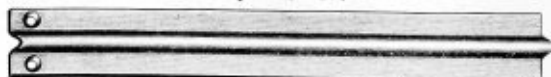
- No. 17297—For Use with Nos. 16998, 16998 $\frac{1}{2}$, 16994 and 17028D Sheaves.....\$0.08
No. 17298—For Use with Nos. 16999 and 17028E Sheaves......11
Weight Per 1000 Feet About 175 Pounds.
One Thousand Feet in a Case.



Wrought Brass

In Lengths of 2, 3, 4, 5, 6, 7 and 8 Feet. Per Foot

- No. 990 $\frac{1}{4}$ —For Use with Nos. 752, 752 $\frac{1}{4}$, 753, 753 $\frac{1}{4}$, or 0580 Sheaves.....\$0.25
Weight Per 100 Feet 9 Pounds.
Open Stock.



Wrought Steel, Bronze Plated

In Lengths of 2, 3, 4, 5, 6, 7 and 8 Feet. Per Foot

- No. 991 $\frac{1}{2}$ — $\frac{3}{4}$ in. Wide, for Use with Nos. 750, 752, 752 $\frac{1}{4}$, 753, 753 $\frac{1}{4}$ and 0580 Sheaves, Weight Per 100 Feet 8 $\frac{1}{2}$ Lbs.....\$0.11
No. 990— $1\frac{1}{8}$ in. Wide, for Use with Nos. 588, 588 $\frac{1}{2}$, 9 and 500 Sheaves, Weight Per 100 Feet 19 Lbs......12

Wrought Brass, Plain

In Lengths of 2, 3, 4, 5, 6, 7 and 8 Feet

- No. 990 $\frac{1}{2}$ — $\frac{3}{4}$ in. Wide, for Use with Nos. 750, 752, 752 $\frac{1}{4}$, 753, 753 $\frac{1}{4}$ and 0580 Sheaves, Weight Per 100 Feet 10 $\frac{1}{4}$ Lbs.....\$0.28
No. 990 $\frac{3}{4}$ — $1\frac{1}{8}$ in. Wide, for Use with Nos. 588, 588 $\frac{1}{2}$, 9 and 500 Sheaves, Weight Per 100 Feet 26 Lbs......55

CASTERS

FAULTLESS PIVOT BEARING

Short Stem

Practically eliminates all friction. The round headed pivot stem carries the weight at one point, at the end of the stem, resulting in a free easy turning caster.

Compact, well built, strong, rolls easily and smoothly.



Socket.

"Faultless" Steel Wheel, Brass Plated Horn and Wheel



Per Set of Four
No. A-7-3—Size Wheel No. 3, $1\frac{1}{2}$ in. Diameter, $\frac{3}{8}$ in. Face, $\frac{1}{8}$ x 1 in. Bore, $\frac{1}{4}$ in. Track Plate, Weight Per Set $\frac{1}{2}$ Lb. \$0.46
Six Sets in a Box.

FAULTLESS PIVOT BEARING
LONG STEM

Socket.

$\frac{3}{8}$ x $1\frac{1}{2}$ in. bore, with reinforced track plate, $\frac{3}{4}$ in. diameter.



Nos. C-2-4 and C-4-4.



No. C-6-4.

Lignumvitae Wheel, Bright Steel Horn

Per Set of Four

No. C-2-4—Size Wheel No. 4, $1\frac{1}{2}$ in. Diameter, $\frac{3}{8}$ in. Face, Weight Per Set $\frac{1}{2}$ Lb. \$0.35

Lignumvitae Wheel, Brass Plated Horn

| Nos. | C-4-4 | C-4-6 |
|----------------------|--------------------------------|--------------------------------|
| Size Wheel, Nos. | 4 | 6 |
| Size Wheel, Inches | $1\frac{1}{2}$ x $\frac{1}{2}$ | $1\frac{1}{2}$ x $\frac{1}{2}$ |
| Weight Per Set, Lbs. | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Per Set of Four | \$0.39 | .46 |

"Faultless" Steel Wheel, Nickel Plated Horn and Wheel

| Nos. | C-6-4 | C-6-5 | C-6-6 |
|----------------------|--------------------------------|--------------------------------|--------------------------------|
| Size Wheel, Nos. | 4 | 5 | 6 |
| Size Wheel, Inches | $1\frac{1}{2}$ x $\frac{3}{4}$ | $1\frac{1}{4}$ x $\frac{1}{2}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ |
| Weight Per Set, Lbs. | $\frac{7}{10}$ | $\frac{3}{4}$ | $\frac{9}{10}$ |
| Per Set of Four | \$0.50 | .54 | .57 |

One Set in a Box.

FAULTLESS PIVOT BEARING

For Wood Beds and Heavy Furniture

$\frac{3}{8}$ x 2 in. Bore, 1 in. Diameter Track Plate.



No. D-6-6.



Socket.

"Faultless" Steel Wheel, Nickel Plated Horn and Wheel

| Nos. | D-6-6 | D-6-8 |
|----------------------|--------------------------------|--------------------------------|
| Size Wheel, Nos. | 6 | 8 |
| Size Wheel, Inches | $1\frac{3}{4}$ x $\frac{3}{4}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ |
| Weight Per Set, Lbs. | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Per Set of Four | \$0.70 | .75 |

Four Sets in a Box.

CASTERS

FAULTLESS ROLLER BEARING GRIP NECK



No. RB-6-3.

$\frac{3}{8}$ x $1\frac{1}{2}$ in. Bore.

"Faultless" Steel Wheel, Nickel Plated Horn and Wheel

| Nos. | RB-6-3 | RB-6-4 | RB-6-6 | RB-6-8 |
|------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Size Wheel, Nos. | 3 | 4 | 6 | 8 |
| Size Wheel, Inches | $1\frac{1}{2}$ x $\frac{1}{2}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ |
| Diam. Track Plate, In. | 1 | 1 | $1\frac{1}{4}$ | $1\frac{1}{4}$ |
| Weight Per Set, Lbs. | $\frac{3}{4}$ | $\frac{4}{5}$ | 1 | $1\frac{1}{2}$ |
| Per Set of Four | \$0.49 | .54 | .69 | .79 |

"Faultless" Steel Wheel, Brass Plated Horn and Wheel

| Nos. | RB-7-3 | RB-7-4 | RB-7-5 | RB-7-6 | RB-7-8 |
|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Size Wheel, Nos. | 3 | 4 | 5 | 6 | 8 |
| Size Wheel, In. | $1\frac{1}{2}$ x $\frac{1}{2}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ | $1\frac{1}{4}$ x $\frac{1}{2}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ |
| Dia. Track Plate, Inches | 1 | 1 | 1 | $1\frac{1}{4}$ | $1\frac{1}{4}$ |
| Wt. Per Set, Lbs. | $\frac{3}{4}$ | $\frac{4}{5}$ | $\frac{9}{10}$ | 1 | $1\frac{1}{2}$ |
| Per Set of Four | \$0.49 | .54 | .59 | .69 | .79 |

Felt Wheel, Brass Plated Horn

Faultless Felt Wheels are made without glue or sizing. The tread is pure felt, scientifically treated to absorb vibration; silent and neat appearing.

| Nos. | RB-12-3 |
|------------------------------|--------------------------------|
| Size Wheel, No. | 3 |
| Size Wheel, Inches | $1\frac{1}{2}$ x $\frac{1}{2}$ |
| Diameter Track Plate, Inches | 1 |
| Weight Per Set, Lbs. | $\frac{3}{4}$ |
| Per Set of Four | \$1.33 |



No. RB-12-4

| Nos. | RB-12-4 | RB-12-6 | RB-12-7 | RB-12-8 |
|-----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Size Wheel, Nos. | 4 | 6 | 7 | 8 |
| Size Wheel, Inches | $1\frac{1}{2}$ x $\frac{3}{4}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ | $1\frac{1}{2}$ x $\frac{3}{4}$ |
| Dia. Track Plate, In. | 1 | $1\frac{1}{4}$ | $1\frac{1}{4}$ | $1\frac{1}{4}$ |
| Weight Per Set, Lbs. | $\frac{4}{5}$ | $\frac{9}{10}$ | $\frac{9}{10}$ | $1\frac{1}{10}$ |
| Per Set of Four | \$1.43 | 1.83 | 2.08 | 2.33 |

One Set in a Box.

UNIVERSAL BALL BEARING GRIP NECK

The Universal Type is one of the most popular Ball Bearing Socket Casters and has been on the market for many years.

Constructed of High Grade Steel Throughout with Steel Ball Bearings.

$\frac{3}{8}$ x $1\frac{1}{2}$ in. Bore.



No. 503x26.

Lignumvitae Wheel, Bright Steel Finish Horn

| Nos. | 503x26 | 505x26 | 507x26 |
|----------------------|--------------------------------|--------------------------------|--------------------------------|
| Size Wheel, Nos. | 3 | 5 | 7 |
| Size Wheel, Inches | $1\frac{1}{2}$ x $\frac{1}{2}$ | $1\frac{1}{4}$ x $\frac{1}{2}$ | $1\frac{1}{2}$ x $\frac{1}{2}$ |
| Weight Per Set, Lbs. | $\frac{3}{4}$ | $\frac{5}{8}$ | $\frac{7}{8}$ |
| Per Set of Four | \$0.25 | .30 | .40 |

Six Sets in a Box.

CASTERS

STEEL GEM, ROLLER BEARING, GRIP NECK

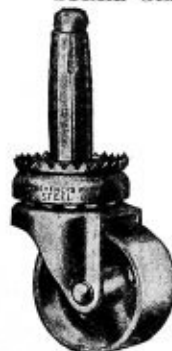
Iron Wheel

Standard Socket No. 3, $\frac{3}{8}$ x1 $\frac{1}{2}$ in. Bore.

| | | |
|----------------------|---------------------------------|---------------------------------|
| Nos. | 355-B | 555-B |
| Size Wheel, Nos. | 3 | 5 |
| Size Wheel, Inches. | 1 $\frac{1}{8}$ x $\frac{5}{8}$ | 1 $\frac{1}{8}$ x $\frac{5}{8}$ |
| Weight Per Set, Lbs. | $\frac{3}{4}$ | $\frac{7}{8}$ |
| Per Set of Four | \$0.65 | .75 |

| | |
|----------------------|---------------------------------|
| No. | 755-B |
| Size Wheel, No. | 7 |
| Size Wheel, Inches. | 1 $\frac{5}{8}$ x $\frac{3}{4}$ |
| Weight Per Set, Lbs. | 1 $\frac{1}{4}$ |
| Per Set of Four | \$0.90 |

One Set in a Box.



No. 355.

RUGBY GRIP NECK

Lignumvitae Wheel, Brass Plated, Bell Shaped Steel Horn

Standard Socket No. 3, $\frac{3}{8}$ x1 $\frac{1}{2}$ in. Bore.

| | | |
|---------------------|---------------------------------|---------------------------------|
| Nos. | 3002 | 5002 |
| Size Wheel, Nos. | 3 | 5 |
| Size Wheel, Inches. | 1 $\frac{1}{8}$ x $\frac{5}{8}$ | 1 $\frac{1}{8}$ x $\frac{5}{8}$ |
| Weight Set, Lbs. | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Per Set of Four | \$0.22 | .27 |

| | |
|----------------------|---------------------------------|
| No. | 7002 |
| Size Wheel, No. | 7 |
| Size Wheel, Inches. | 1 $\frac{5}{8}$ x $\frac{3}{4}$ |
| Weight Per Set, Lbs. | $\frac{7}{8}$ |
| Per Set of Four | \$0.35 |

Six Sets in a Box.



No. 3002.

DIAMOND VELVET, TOP BEARING

Red Fibre Wheel, Brass Plated Horn

For General Use on Linoleum, Rugs, Partly Covered Floors, Etc.

Standard Socket No. 6, $\frac{3}{8}$ x1 $\frac{1}{2}$ in. Bore.

| | | |
|----------------------|---------------------------------|---------------------------------|
| Nos. | BRB | DRB |
| Size Wheel, Nos. | 3 | 5 |
| Size Wheel, Inches. | 1 $\frac{1}{8}$ x $\frac{5}{8}$ | 1 $\frac{1}{8}$ x $\frac{5}{8}$ |
| Weight Per Set, Lbs. | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Per Set of Four | \$0.75 | 1.00 |

| | |
|----------------------|---------------------------------|
| No. | FRB |
| Size Wheel, No. | 7 |
| Size Wheel, Inches. | 1 $\frac{5}{8}$ x $\frac{3}{4}$ |
| Weight Per Set, Lbs. | $\frac{7}{8}$ |
| Per Set of Four | \$1.30 |

One Set in a Box.



No. BRB.

Feltoid Wheel, Brass Plated Horn

To be used on Wood, Tile, Composition or other hard surface floors to protect them against marring or gouging.

Standard Socket No. 6, $\frac{3}{8}$ x1 $\frac{1}{2}$ in. Bore.

| | | |
|----------------------|---------------------------------|---------------------------------|
| Nos. | BFB | DFB |
| Size Wheel, Nos. | 3 | 5 |
| Size Wheel, Inches. | 1 $\frac{1}{8}$ x $\frac{5}{8}$ | 1 $\frac{1}{8}$ x $\frac{5}{8}$ |
| Weight Per Set, Lbs. | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Per Set of Four | \$1.50 | 1.75 |

| | |
|----------------------|---------------------------------|
| No. | FFB |
| Size Wheel, No. | 7 |
| Size Wheel, Inches. | 1 $\frac{5}{8}$ x $\frac{3}{4}$ |
| Weight Per Set, Lbs. | $\frac{7}{8}$ |
| Per Set of Four | \$2.00 |

One Set in a Box.



No. BFB.

CASTERS

SHENCK PHILADELPHIA PATTERN

Lignumvitae Wheel, Bright Steel Horn

The stem is riveted loose through the horn, which is so formed as to give a double bearing.

 $\frac{1}{4}$ x1 $\frac{1}{2}$ in. Stem.

| | | |
|---------------------|---------------------------------|---------------------------------|
| Nos. | 32 | 42 |
| Size Wheel, Nos. | 3 | 4 |
| Size Wheel, Inches. | 1 $\frac{1}{8}$ x $\frac{5}{8}$ | 1 $\frac{1}{8}$ x $\frac{5}{8}$ |
| Weight Set, Lbs. | $\frac{1}{2}$ | $\frac{1}{2}$ |
| Per Set of Four | \$0.20 | .23 |

| | |
|----------------------|---------------------------------|
| No. | 52 |
| Size Wheel, No. | 5 |
| Size Wheel, Inches. | 1 $\frac{1}{8}$ x $\frac{5}{8}$ |
| Weight Per Set, Lbs. | $\frac{5}{8}$ |
| Per Set of Four | \$0.25 |



No. 32.

Six Sets in a Box.

BASSICK PIANO AND REFRIGERATOR

Extensively used on large refrigerators.

A wood bushing is supplied with No. 6115-B for use in replacing casters with sockets which required a large drilling.

Bushings.

A top bearing design caster, insuring free and easy turning.

Feltoid Wheel, Brass Plated Horn

Per Set of Four

| |
|---|
| No. 6115-B—1 $\frac{3}{4}$ x1 $\frac{1}{2}$ in. Wheel, |
| $\frac{1}{2}$ x1 $\frac{1}{2}$ in. Bore, 2 $\frac{1}{4}$ in. Diameter Plate, Weight Per |
| Set 2 $\frac{1}{4}$ Lbs. |
| \$4.50 |

One Set in a Box.

No. 6115-B.



No. 1111

Iron Wheel, Steel Horn, Bright

Per Set of Four

| |
|---|
| No. 1111—Long Sockets, 1 $\frac{3}{4}$ x |
| 1 $\frac{1}{8}$ in. Wheel, $\frac{1}{2}$ x1 $\frac{1}{2}$ in. |
| Bore, 2 $\frac{1}{4}$ in. Diameter |
| Plate, Weight Per Set 3 $\frac{1}{2}$ |
| Lbs. |
| \$1.40 |

| |
|---|
| No. 2111—Short Socket, 1 $\frac{3}{4}$ x |
| 1 $\frac{1}{8}$ in. Wheel, $\frac{1}{2}$ x1 $\frac{1}{2}$ in. |
| Bore, 2 $\frac{1}{4}$ in. Diameter |
| Plate, Weight Per Set 3 $\frac{1}{4}$ |
| Lbs. |
| 1.40 |

One Set in a Box.

BASSICK TEA WAGON OR BABY CRIB

The "Wizard Swivel" socket has a top point bearing with an inner tube to hold the stem, which allows easy swiveling in the socket.

Rubber Wheel, Brass Plated

Per Set of Four

| |
|---------------------------------------|
| No. 9436x13-B — 2 in. Diameter |
| Wheel, $\frac{3}{8}$ in. Bore, Weight |
| Per Set $\frac{1}{4}$ Lb. |
| \$1.20 |

Rubber Wheel, Nickel Plated

Per Set of Four

| |
|---------------------------------------|
| No. 13436x13-N—3 in. Diameter |
| Wheel, $\frac{3}{8}$ in. Bore, Weight |
| Per Set 1 $\frac{1}{2}$ Lbs. |
| \$1.60 |

One Set in a Box.

No. 13436x13-N.



CASTERS

FAULTLESS PIVOT BEARING



For Hospital Use

Rolls easily, swivels perfectly in any direction without clatter and unsteadiness. Strong, yet simple, with plenty of metal to stand up and resist strains. Rubber wheels prevent scratching, are silent and neat appearing.

Rubber Wheel, Nickel Plated

For $\frac{1}{8}$ in. Diameter Socket.

| Nos. | D-17-11 | D-17-13 |
|-------------------|------------------------------------|------------------------------------|
| Size Wheels, Nos. | 11 | 13 |
| Size Wheel, In. | $2\frac{3}{4} \times 5\frac{1}{2}$ | $4\frac{3}{4} \times 5\frac{1}{2}$ |
| Wt. Per Set, Lbs. | $2\frac{1}{2}$ | 5 |
| Per Set of Four | \$5.00 | 7.00 |

One Set in a Box.

BASSICK RUBOID

For Office Chairs

Has the Diamond Velvet Socket with fibre bearing at the top. The longest wearing, easiest swiveling socket made. The Ruboid Wheel is made of vertical laminations of seasoned wood held fast by vulcanized rubber. It is the longest wearing, quietest, with easiest traction and lowest cost.

Ruboid Wheel, Gun Metal Finish

Per Set of Four

| | |
|--|--------|
| No. GWG—2 in. Diameter Wheel, | |
| $\frac{1}{2}$ in. Bore, Weight Per Set | |
| $1\frac{1}{2}$ Lbs. | \$2.75 |

One Set in a Box.



ACME BALL BEARING

The balls are standard alloy steel, the race of chrome steel. These parts are galvanized by electro galvanizing process, making them positively rust proof in any climate.

Rolled Steel Frame, Hardened Tool Steel Ball Bearings and Ball Race, and Ball Race, Solid Rim Surface Ball.



No. 657.

No. 657—Round Plate, Nickel Plated

| | | |
|-------------------|----------------|----------------|
| Size Ball, Inches | $\frac{3}{4}$ | 1 |
| Wt. Per Set, Lbs. | $\frac{1}{4}$ | $\frac{3}{4}$ |
| Per Set of Four | \$0.65 | .70 |
| Size Ball, Inches | $1\frac{1}{8}$ | $1\frac{1}{4}$ |
| Wt. Per Set, Lbs. | $\frac{1}{2}$ | 1 |
| Per Set of Four | \$0.75 | .80 |

One Set in a Box.



No. 659.

Rolled Steel Frame, Stem and Socket, Hardened Tool Steel Ball Bearings and Ball Race, Solid Rim Surface Ball, Stem and Socket.



No. 659—Grip Neck, Nickel Plated

| | | |
|-------------------|----------------|----------------|
| Size Ball, Inches | $\frac{3}{4}$ | 1 |
| Wt. Per Set, Lbs. | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Per Set of Four | \$0.70 | .75 |
| Size Ball, Inches | $1\frac{1}{8}$ | $1\frac{1}{4}$ |
| Wt. Per Set, Lbs. | 1 | $1\frac{1}{2}$ |
| Per Set of Four | \$0.80 | .85 |

One Set in a Box.

CASTERS

BASSICK FURNITURE SHOE



No. 185-N.

Steel Base, Nickel Plated

Steel Base, Nickel Plated

Per Set of Four
No. 185N— $1\frac{1}{8}$ in. Diameter Base,
Standard Socket No. 25, $\frac{3}{8} \times$
 $1\frac{1}{2}$ in. Bore, Weight Per
Set $\frac{3}{8}$ Lb. \$0.35

Six Sets in a Box.



Per Set of Four
No. 180N— $1\frac{1}{2}$ in. Diameter Base,
Standard Socket No. 25, $\frac{3}{8} \times$
 $1\frac{1}{2}$ in. Bore, Weight Per
Set $\frac{1}{2}$ Lb. \$0.40

Six Sets in a Box.

No. 180-N.

FOSTER MERRIAM SOCKET

ROUND SHALLOW SOCKET

Cast Brass Socket and Horn, Polished

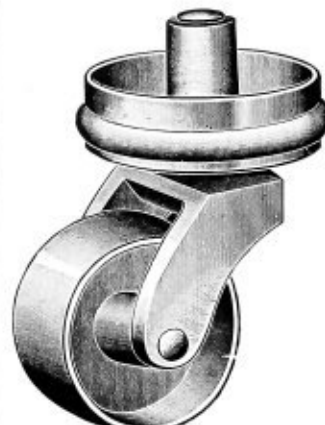
No. 13—Cast Brass Wheel

| | | |
|----------------|---------------|---------------|
| Dia. Sck., in. | $\frac{7}{8}$ | 1 |
| Wt. Set, Lbs. | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Per Set of 4 | \$1.25 | 1.40 |

| | | |
|----------------|----------------|----------------|
| Dia. Sck., in. | $1\frac{1}{8}$ | $1\frac{1}{4}$ |
| Wt. Set, Lbs. | 1 | $1\frac{1}{8}$ |
| Per Set of 4 | \$1.50 | 1.80 |

| | | |
|----------------|----------------|----------------|
| Dia. Sck., in. | $1\frac{3}{8}$ | $1\frac{1}{2}$ |
| Wt. Set, Lbs. | $1\frac{1}{2}$ | 1 |
| Per Set of 4 | \$1.90 | 2.10 |

Open Stock.



No. 13.

ROUND DEEP SOCKET

Cast Brass Socket and Horn, Polished

No. 19—Cast Brass Wheel

| | | |
|-------------------|---------------|---------------|
| Diam. Socket, in. | $\frac{7}{8}$ | 1 |
| Wt. Set, Lbs. | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Per Set of 4 | \$1.70 | 1.80 |

| | | |
|-------------------|----------------|----------------|
| Diam. Socket, in. | $1\frac{1}{8}$ | $1\frac{1}{4}$ |
| Wt. Set, Lbs. | 1 | $1\frac{1}{8}$ |
| Per Set of 4 | \$2.10 | 2.35 |

| | | |
|-------------------|----------------|----------------|
| Diam. Socket, in. | $1\frac{3}{8}$ | $1\frac{1}{2}$ |
| Wt. Set, Lbs. | $1\frac{1}{2}$ | $1\frac{3}{4}$ |
| Per Set of 4 | \$2.50 | 2.80 |

Open Stock.



No. 19.

SQUARE DEEP SOCKET

Cast Brass Socket and Horn, Polished

No. 25—Cast Brass Wheel

| | | | | | | |
|-------------------|---------------|---------------|----------------|----------------|----------------|----------------|
| Diam. Socket, In. | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ |
| Weight Set, Lbs. | $\frac{5}{8}$ | $\frac{3}{4}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $2\frac{1}{8}$ |
| Per Set of 4 | \$2.70 | 2.80 | 3.10 | 3.35 | 4.00 | 5.75 |

Open Stock.

CASTERS

FAULTLESS ROLLER BEARING METAL BED



The Combination Faultless Roller Bearing Caster with the Faultless Spring Metal Bed Socket gives exceptional service. Its construction is simple and durable.

"Faultless" Steel Wheel, Nickel Plated Horn and Wheel

Per Set of Four

No. **RBK-6-3**—Size Wheel No. 3, $1\frac{1}{8}$ in. Diameter, $\frac{3}{8}$ in. Face, for $\frac{3}{4}$ in. Outside Diameter Round Tubing, Weight Per Set $\frac{3}{4}$ Lbs. **\$0.55**

No. **RBK-6-3-7/8**—For $\frac{7}{8}$ in. Outside Diameter Round Tubing, Otherwise Same as No. RBK-6-3. **.55**

No. **RBL-6-5**—Size Wheel No. 5, $1\frac{1}{4}$ in. Diameter, $\frac{1}{2}$ in. Face, for 1 in. Outside Diameter Round Tubing, Weight Per Set 1 Lb. **.62**

No. **RBM-6-8**—Size Wheel No. 8, $1\frac{5}{8}$ in. Diameter, $\frac{3}{4}$ in. Face, for $1\frac{1}{4}$ in. Outside Diameter Round Tubing, Weight Per Set $1\frac{1}{4}$ Lbs. **.87**

No. **RBN-6-8**—Size Wheel No. 8, $1\frac{5}{8}$ in. Diameter, $\frac{3}{4}$ in. Face, for $1\frac{1}{2}$ in. Outside Diameter Round Tubing, Weight Per Set $1\frac{1}{2}$ Lbs. **.92**

Nos. RBK-6-3 to RBL-6-5, Six Sets; Nos. RBM-6-8 and RBN-6-8, Four Sets in a Box.

"Faultless" Steel Wheel, Nickel Plated Horn and Wheel

Per Set of Four

No. **RBO-6-8**—Size Wheel No. 8, $1\frac{5}{8}$ in. Diameter, $\frac{3}{4}$ in. Face, for $1\frac{1}{8}$ in. Outside Diameter Round Tubing, Wt. Per Set 1 $\frac{3}{4}$ Lbs. **\$0.97**

No. **RBO-6-8-2**—For 2 in. Outside Diameter Round Tubing, Otherwise Same as No. RBO-6-8. **.97**

No. **RBP-6-8**—For $2\frac{1}{2}$ in. Outside Diameter Round Tubing, Otherwise Same as No. RBO-6-8. **1.20**

Two Sets in a Box.



"Faultless" Steel Wheel, Nickel Plated Horn and Wheel

Per Set of Four

No. **RBR-6-6**—Size Wheel No. 6, $1\frac{3}{8}$ in. Diameter, $\frac{3}{4}$ in. Face, for 1 in. Outside Diameter Square Tubing, Weight Per Set 1 Lb. **\$0.80**

No. **RBS-6-7**—Size Wheel No. 7, $1\frac{1}{2}$ in. Diameter, $\frac{3}{4}$ in. Face, for $1\frac{1}{4}$ in. Outside Diameter Square Tubing, Weight Per Set $1\frac{1}{4}$ Lbs. **.80**

No. **RBT-6-8**—Size Wheel No. 8, $1\frac{5}{8}$ in. Diameter, $\frac{3}{4}$ in. Face, for $1\frac{1}{2}$ in. Outside Diameter Square Tubing, Weight Per Set $1\frac{1}{2}$ Lbs. **1.01**

No. RBR-6-6, Four Sets; Nos. RBS-6-7 and RBT-6-8, Two Sets in a Box.

CASTERS

UNIVERSAL BALL BEARING PLATE

Oblong Plate



Steel Plate, Horn, Frame Pin and Heavy Axle, Bright Finish.

For use on boxes, cabinets and various styles of furniture requiring this type of caster.

Sturdily built of the best materials and manufactured for years under constantly improving methods.

Lignumvitae Wheel, Bright Steel Finish

| | | |
|---------------------------|------------------------------------|------------------------------------|
| Nos. | 533x26 | 535x26 |
| Size Wheel, Nos. | 3 | 5 |
| Size Wheel, Inches | $1\frac{1}{8} \times \frac{1}{2}$ | $1\frac{1}{4} \times \frac{1}{2}$ |
| Size Plate, Inches | $1\frac{1}{2} \times 1\frac{1}{2}$ | $1\frac{3}{4} \times 1\frac{1}{2}$ |
| Height, Inches | 1 $\frac{1}{8}$ | 1 $\frac{1}{8}$ |
| Weight Per Set, Lbs. | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Per Set of Four. | \$0.23 | .30 |

Six Sets in a Box.

STEEL GEM, ROLLER BEARING, PLATE

Square Plate

Steel Plate, Horn, Frame Pin and Axle.

Widely known as the leading make of plate casters. Their construction and the quality of their material makes them strong and rugged. For use wherever casters are subjected to hard usage.



Feltoid Wheel, Brass Plated

| | | | | |
|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|
| Nos. | 477-B | 677-B | 777-B | 877-B |
| Size Wheel, Nos. | 4 | 6 | 7 | 8 |
| Size Wheel, Inches. | $1\frac{1}{8} \times \frac{5}{8}$ | $1\frac{1}{2} \times \frac{3}{4}$ | $1\frac{5}{8} \times \frac{3}{4}$ | $1\frac{3}{4} \times 1$ |
| Size Plate, Inches. | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $2\frac{1}{4}$ |
| Height, Inches | $1\frac{1}{8}$ | 2 | $2\frac{1}{8}$ | $2\frac{1}{2}$ |
| Weight Per Set, Lbs. | $\frac{3}{4}$ | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $2\frac{1}{4}$ |
| Per Set of Four. | \$1.50 | 2.00 | 2.50 | 3.75 |

One Set in a Box.



Iron Wheel, Bright Steel Finish

| | | | |
|---------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Nos. | 351 | 551 | 751 |
| Size Wheel, Nos. | 3 | 5 | 7 |
| Size Wheel, Inches | $1\frac{1}{8} \times \frac{5}{8}$ | $1\frac{1}{8} \times \frac{5}{8}$ | $1\frac{5}{8} \times \frac{3}{4}$ |
| Size Plate, Inches | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $1\frac{1}{2}$ |
| Height, Inches | $1\frac{1}{8}$ | $1\frac{1}{8}$ | $2\frac{1}{8}$ |
| Weight Per Set, Lbs. | $\frac{3}{4}$ | 1 | $1\frac{1}{4}$ |
| Per Set of Four. | \$0.45 | .50 | .65 |

| | | |
|---------------------------|-------------------------|----------------|
| Nos. | 851 | 951 |
| Size Wheel, Nos. | 8 | 9 |
| Size Wheel, Inches | $1\frac{3}{4} \times 1$ | 2×1 |
| Size Plate, Inches | $2\frac{1}{4}$ | $2\frac{1}{4}$ |
| Height, Inches | $2\frac{1}{2}$ | $2\frac{1}{2}$ |
| Weight Per Set, Lbs. | $2\frac{1}{4}$ | $2\frac{5}{8}$ |
| Per Set of Four. | \$1.00 | 1.10 |

One Set in a Box.

CASTERS**BASSICK TRUCK****With Bassick Ruboid Wheel**

Ruboid Wheels are constructed with laminations of tough sinewy wood held fast in a solid mass of vulcanized rubber. They are formed into solid, long wearing wheels that are acid, oil and water proof. They are rigid enough to roll easily and resilient enough to take the bumps quietly, smoothly and without harm to floors.

Harvard Steel Ball Bearing

Heavy Embossed Steel Top Plate reinforced by independent Bearing Cup, Special Annealed King Pin, Heavy Gauge Steel Horn of high tensile strength.

Spanner Bushing strengthens horn preventing its bending inward under weight and binding wheels, gives large bearing surface to wheel.

Ruboid Wheel, Bright Steel Finish

No. 13426-W—Wheel $3\frac{1}{4}$ in. Diameter, $1\frac{1}{4}$ in. Face, Plate $3\frac{1}{8} \times 4\frac{1}{8}$ in., Height Over All $4\frac{1}{8}$ in., Weight Per Set 6 $\frac{1}{2}$ Lbs. **\$6.20**

Open Stock.

Steel Shaft Bearing

Has the same construction as the No. 13426-W, but with specially designed differential shaft bearings which make easy swiveling under heavy loads.

Ruboid Wheel, Bright Steel Finish

| Nos. | 14436-W | 16436-W |
|------------------------------|-------------------|-------------------|
| Size Wheel, Inches..... | 4x1 $\frac{3}{8}$ | 6x1 $\frac{3}{8}$ |
| Length Plate, Inches..... | 5 | 6 $\frac{1}{2}$ |
| Width Plate, Inches..... | 4 | 6 |
| Height Over All, Inches..... | 5 $\frac{1}{4}$ | 7 $\frac{3}{4}$ |
| Weight Per Set, Lbs..... | 12 $\frac{1}{4}$ | 35 $\frac{1}{2}$ |
| Per Set of Four..... | \$10.00 | 21.50 |

Open Stock.

Steel Stationary Rollers

Heavy Gauge Steel Horn is designed to give strength and absorb shock.

Added strength is obtained by a box construction, the legs of the horn being locked against a spanner bushing which extends between the two legs and through which the axle is riveted.

**Ruboid Wheel, Bright Steel Finish**

| Nos. | 3386-W | 4386-W | 6386-W |
|----------------------------|------------------------------------|-------------------|-------------------|
| Size Wheel, Inches.... | $3\frac{1}{2} \times 1\frac{1}{4}$ | 4x1 $\frac{3}{8}$ | 6x1 $\frac{3}{8}$ |
| Length Plate, Inches... | 5 | 6 $\frac{1}{4}$ | 8 $\frac{1}{2}$ |
| Width Plate, Inches... | 2 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 4 $\frac{1}{2}$ |
| Height Over All, Inches... | 3 $\frac{3}{8}$ | 4 $\frac{5}{8}$ | 7 |
| Weight Per Set, Lbs... | 5 | 7 $\frac{3}{4}$ | 21 $\frac{1}{2}$ |
| Per Set of Four..... | \$5.75 | 8.80 | 16.60 |

Open Stock.



Heavy Cast Iron Plate and Horn with Steel Roller Bearing and Heavy Steel Axle. Top Plate has a Hub cast on, removing all Side Strain from the king and insuring easy swiveling.

Iron Wheel, Plain Finish

| Nos. | 837 | 937 | 1037 | 1137 | 1237 |
|-------------------------------|------------------------------------|------------------------------------|-------------------|-------------------|-------------------|
| Size Wheel, Inches..... | $2\frac{1}{2} \times 1\frac{1}{8}$ | $3\frac{1}{2} \times 1\frac{3}{8}$ | 4x1 $\frac{1}{2}$ | 5x1 $\frac{5}{8}$ | 6x1 $\frac{3}{4}$ |
| Length Plate, Inches..... | 4 | 4 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 5 $\frac{3}{8}$ | 7 |
| Width Plate Center, Inches... | 2 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 4 $\frac{1}{4}$ | 5 $\frac{1}{4}$ |
| Height Over All, Inches..... | 3 $\frac{3}{8}$ | 4 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 6 $\frac{1}{2}$ | 8 |
| Weight Per Set, Lbs..... | 8 $\frac{1}{2}$ | 13 $\frac{3}{4}$ | 15 $\frac{1}{2}$ | 33 | 60 |
| Per Set of Four..... | \$1.80 | 2.60 | 3.24 | 5.50 | 12.00 |

Open Stock.

CASTERS**FAULTLESS SWIVEL, TRUCK**

Pressed from Heavy Steel to withstand the impact of sudden blows, equipped with hardened, ground and lapped Steel Balls.

The Top Plate is deep pressed with a smooth, accurately formed race-way which insures the retention of the ball bearings in their proper position.

Cast Iron Wheel, Bright Steel Finish

| Nos. | 108-2 $\frac{1}{2}$ | 108-3 | 108-4 |
|----------------------------|------------------------------------|------------------------------------|-------------------|
| Size Wheel, Inches.... | $2\frac{1}{2} \times 1\frac{1}{4}$ | $3\frac{1}{2} \times 1\frac{3}{8}$ | 4x1 $\frac{1}{2}$ |
| Length Plate, Inches... | 3 $\frac{3}{8}$ | 4 $\frac{1}{8}$ | 5 |
| Width Plate, Inches... | 2 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 4 |
| Height Over All, Inches... | 3 $\frac{3}{8}$ | 3 $\frac{1}{2}$ | 5 |
| Weight Per Set, Lbs... | 5 $\frac{5}{8}$ | 8 $\frac{5}{8}$ | 15 |
| Per Set of Four..... | \$2.00 | 2.70 | 5.70 |

Open Stock.

PAYSON ANTI-FRICTION, TRUCK

Small Sizes, for Furniture, Small Trucks, etc.

No. 37—Cast Iron Wheel

| Size Nos. | 182 | 183 | 184 | 186 |
|-------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------|
| Size Wheel, Inches.... | $1\frac{1}{2} \times \frac{3}{8}$ | $1\frac{3}{8} \times \frac{5}{8}$ | $1\frac{5}{8} \times \frac{3}{4}$ | $2 \times \frac{3}{4}$ |
| Length Plate, Inches... | 2 | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ | 3 $\frac{1}{8}$ |
| Width Plate, Inches... | $1\frac{1}{8}$ | $1\frac{1}{8}$ | $1\frac{1}{8}$ | 2 $\frac{1}{8}$ |
| Height Over All, In.... | $1\frac{1}{4}$ | 2 | 2 $\frac{3}{8}$ | 2 $\frac{3}{4}$ |
| Weight Per Set, Lbs... | 1 | $1\frac{1}{2}$ | 2 $\frac{1}{4}$ | 3 $\frac{1}{2}$ |
| Per Set of Four..... | \$0.60 | .75 | .95 | 1.25 |

Large Sizes for Heavy Trucks**Cast Iron Wheel**

| Size Nos. | 188 | 190 | 404 | 192 |
|-------------------------|------------------------------------|-------------------------|-------------------|-------------------|
| Size, Wheel, Inches.... | $2\frac{1}{2} \times 1\frac{1}{4}$ | $3 \times 1\frac{3}{8}$ | 4x1 $\frac{3}{8}$ | 4x2 $\frac{1}{4}$ |
| Length Plate, Inches... | 4 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 4 $\frac{1}{4}$ | 6 $\frac{1}{4}$ |
| Width Plate, Inches... | 3 | 3 $\frac{3}{8}$ | 3 $\frac{3}{8}$ | 4 $\frac{1}{4}$ |
| Height Over All, In.... | 3 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 5 $\frac{3}{8}$ | 6 |
| Weight Per Set, Lbs... | 8 | 14 | 20 | 36 |
| Per Set of Four..... | \$2.75 | 4.00 | 7.00 | 12.00 |

Open Stock.

GEM IRON, ROLLER BEARING, TRUCK

CASTERS

BOSS PATENT,
TRUCK

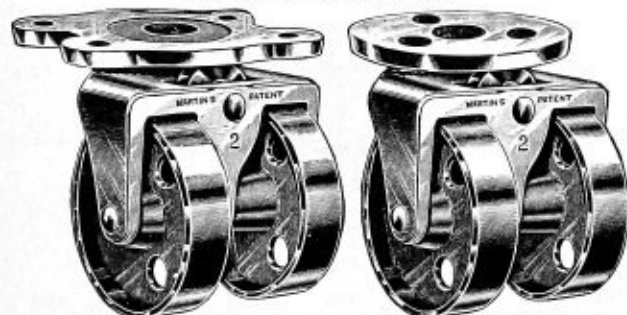
Wide Wheel, Soft
Rubber Tire
Oblong
Plate

Disc Bearings,
with Spacer to keep
Bearings Separated
and to prevent
Friction.

| Nos. | 388-R | 390-R | 391-R | 392-R |
|----------------------|-------------|--------|---------------|---------------|
| Size Wheel, Nos. | 8 | 10 | 11 | 12 |
| Size Wheel, Inches | 2 1/2 x 7/8 | 3x1 | 3 1/2 x 1 1/8 | 4 1/4 x 1 3/8 |
| Length Plate, Inches | 4 1/2 | 4 3/4 | 5 3/8 | 6 |
| Width Plate, Inches | 2 3/4 | 3 1/4 | 3 3/8 | 4 |
| Thickness Plate, In. | 3/4 | 7/8 | 1 1/8 | 7/8 |
| Height Over All, In. | 3 3/8 | 4 1/8 | 5 1/8 | 5 3/8 |
| Weight Per Set, Lbs. | 9 1/4 | 13 1/2 | 20 3/4 | 28 1/2 |
| Per Set of Four | \$7.00 | 10.50 | 15.00 | 22.00 |

Open Stock.

MARTIN PATENT, TRUCK



Nos. 82 to 112.

Nos. 21 and 31.

Iron Wheels, Malleable Iron Castings, Lacquered

Bronze Finish
Oblong Plate

| Nos. | 82 | 102 | 112 |
|-------------------------|-------------|-------------|-------------|
| Size Wheels, Nos. | 8 | 10 | 11 |
| Size Wheels, Inches | 2 1/2 x 3/4 | 3 1/2 x 3/4 | 3 3/4 x 3/4 |
| Length Plate, Inches | 4 3/4 | 4 3/4 | 5 |
| Width Plate, Inches | 3 1/4 | 3 3/8 | 3 3/8 |
| Height Over All, Inches | 3 1/4 | 4 1/8 | 5 1/8 |
| Weight Per Set, Lbs. | 11 | 13 | 19 |
| Per Set of Four | \$2.00 | 2.50 | 3.75 |

Open Stock.

Round Plate

| Nos. | 21 | 31 |
|-------------------------|-------------|-------------|
| Size Wheels, Nos. | 2 | 3 |
| Size Wheels, Inches | 1 1/2 x 1/2 | 1 3/4 x 3/4 |
| Diameter Plate, Inches | 1 1/4 | 1 3/8 |
| Height Over All, Inches | 1 1/2 | 1 7/8 |
| Weight Per Set, Lbs. | 1 | 2 |
| Per Set of Four | \$0.80 | .85 |

One Set in a Box.

RUBBER TIRES

FOR BOSS PATENT CASTERS



| | | | |
|-------------------|--------|-------|-------|
| Outside Dia., In. | 2 1/2 | 3 | 3 1/2 |
| Inside Dia., In. | 1 3/4 | 2 1/8 | 2 3/8 |
| Face, Inches | 7/8 | 1 | 1 1/8 |
| Each | \$0.30 | .45 | .60 |

Open Stock.

CASTERS

STORE TRUCK

STATIONARY

Cast Iron, Japanned



No. 17.

| | | |
|-------------------|-------------|-----------|
| Nos. | 17 | 20 |
| Size Wheel, In. | 2 3/4 x 7/8 | 3 3/4 x 1 |
| Length Plate, In. | 4 3/8 | 5 1/8 |
| Width Plate, In. | 2 3/4 | 3 1/4 |
| Hgt. Ov. All, In. | 3 1/4 | 4 1/8 |
| Weight Set, Lbs. | 1 1/2 | 2 1/2 |
| Per Set of Four | \$2.00 | 3.10 |

Open Stock.

Extra Heavy Cast Iron,
Japanned

| | | |
|------------------|---------|-----------|
| Nos. | 21 | 24 |
| Size Wheel, In. | 4x1 1/2 | 4 1/2 x 2 |
| Lgth. Plate, In. | 5 7/8 | 6 1/8 |
| Width Pl. In. | 3 3/4 | 4 1/4 |
| Ht. Ov. All, In. | 4 1/2 | 5 |
| Wt. Set, Lbs. | 4 1/2 | 5 1/2 |
| Per Set of 4 | \$5.10 | 5.20 |

Open Stock.



No. 24.

SWIVEL

Cast Iron, Japanned



Per Set of Four
No. 27—2 3/4 in. Diameter
Wheel, 7/8 in. Face, 2 1/4
in. Diameter Plate, Height
to Plate 4 in., Weight Per
Set 1 1/2 Lbs. \$2.20

Open Stock.

STOVE CASTERS
UNIVERSAL BALL BEARINGBlack Japanned Cast
Iron Base

Can be used under
both Square Base
Stoves and Stoves with
Feet.



Per Set of Four
No. 100—1 1/4 in. Diameter
Ball Bearing Casters,
Raises Stove 1 1/2 in., Wt.
Per Set 4 Lbs. \$2.50

Open Stock.

CASTER CUPS

WOOD

Plain Bottom, Oak Finish



| | | | |
|---------------|--------|-------|---------|
| Nos. | 100 | 101 | 101 1/2 |
| Diameter, In. | 2 1/4 | 2 3/4 | 3 1/2 |
| App. Wt. Set, | | | |
| Lbs. | 3/8 | 5/8 | 1 |
| Per Set of 4 | \$0.25 | .30 | .40 |

Mahogany Finish

| | | | |
|------------------------|--------|-------|-----------|
| Nos. | 100-M | 101-M | 101 1/2-M |
| Diameter, Inches | 2 1/4 | 2 3/4 | 3 1/2 |
| App. Wt. Per Set, Lbs. | 3/8 | 5/8 | 1 |
| Per Set of Four | \$0.25 | .30 | .40 |

Open Stock.

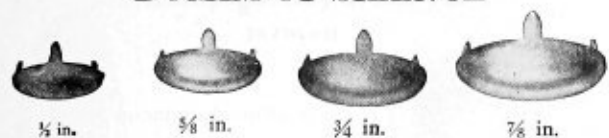
GLASS

| | | |
|---------------|--------|-------|
| Nos. | 2544 | 2546 |
| Diameter, In. | 2 1/4 | 2 3/4 |
| Wt. Set, Lbs. | 3/8 | 1 1/8 |
| Per Set of 4 | \$0.30 | .30 |

Open Stock.



DOMES OF SILENCE



Case Hardened Steel Disc, Highly Polished

| | | | | |
|----------------------|--------|-----|-----|-----|
| Size, Inches | 1/2 | 3/8 | 3/4 | 7/8 |
| Weight Per Set, Lbs. | 1/4 | 3/8 | 1/2 | 5/8 |
| Per Set of Four | \$0.10 | .10 | .10 | .10 |

Furniture fitted with Domes of "Silence" will glide easily, silently and smoothly over floors and carpets. The Domes may be put in place in a few seconds with but a gentle tap of a hammer.

One Set in a Paper Carton, One-quarter Gross Sets of a Size in a Counter Display Carton.

CHAIR GLIDES

B. & R.

Heavy Hardened Steel, Highly Polished
Especially for Use on Delicate Chair Legs.



No. 1673.

| | | |
|----------------------|--------|-------|
| Nos. | 1674 | 1673 |
| Size, Inches | 1/2 | 1 1/2 |
| Weight Per Box, Lbs. | 1/2 | 1 1/2 |
| Per Set of Four | \$0.20 | .20 |
| Nos. | 1672 | 1671 |
| Size, Inches | 1 1/2 | 1 1/2 |
| Weight Per Box, Lbs. | 2 | 2 1/2 |
| Per Set of Four | \$0.20 | .20 |

Twenty-five Sets in a Box.

Heavy Hardened Steel Outer Shell,
Nickel Plated and Polished

Unbreakable Prongs and Center
Pin Project from Untempered Inner
Shell.

Per Set of 4
No. 1687—1 1/4 in. Diam., Wt.

Per Box 2 3/4 Lbs. \$0.50
Twelve and One-half Sets in a Box.



FELTOID CHAIR TIPS

With Screw

Made of a special, Semi-Yielding Com-
position. Has a soft Silken Tread that will
not mar the finest polish.

Per Set of 4
No. 1—3/4 in. Diameter, Weight Per
Box 1/2 Lb. \$0.25
Twelve Sets in a Box.



TACK BUMPERS

RUBBER HEAD

With 1/2 inch Brass Tack

| | | | |
|---------------------|--------|-------|-------|
| Nos. | 3 | 2 | 1 |
| Diam. Head, In. | 3/8 | 1/2 | 5/8 |
| Wt. Per Gross, Lbs. | 1 | 1 1/4 | 1 1/2 |
| Per Gross | \$0.40 | .60 | .80 |

One Gross in a Box.



No. 1.

SCREW BUMPERS

SLOTTED RUBBER HEAD

With No. 10 Wood Screw

Per Dozen
No. 132—3/8 in. Diameter Head, Wt.
Per Dozen About 1/4 Lb. \$0.75

One Gross in a Box.



No. 132.

PLAIN RUBBER BUMPERS

To Be Nailed or Screwed



No. 3.

| | | | | |
|------------------|--------|-------|-------|-------|
| Nos. | 1 1/2 | 2 | 3 | 4 |
| Outs. Diam., In. | 5/8 | 1 1/8 | 1 3/8 | 1 7/8 |
| Height, In. | 1/2 | 1/2 | 1/2 | 1/2 |
| Wt. Gross, Lbs. | 1 1/2 | 1 1/2 | 2 | 2 1/4 |
| Per Gross | \$0.50 | .60 | .90 | 1.20 |

One Gross in a Box.

FURNITURE RINGS



No. 6.



No. 7.



No. 8.

Polished Brass

Price Per Set of Four.

| | | | | | | | |
|--------------------|--------|-----|-------|-------|-------|-------|-----------|
| Diameter, In. | 3/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 1 7/8 | 2 |
| Av. Wt., Set, Lbs. | 3/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 1 7/8 | 2 |
| No. 6—Plain | \$0.31 | .36 | .40 | .45 | .50 | .55 | ..... |
| No. 7—Plain | .50 | .55 | .60 | .65 | .70 | .75 | 1.00 1.00 |
| No. 8—Beaded | .50 | .55 | .60 | .65 | .70 | .75 | 1.00 1.00 |

Open Stock.

CHAIR AND TABLE SOCKETS



No. 31—Polished Brass, Plain

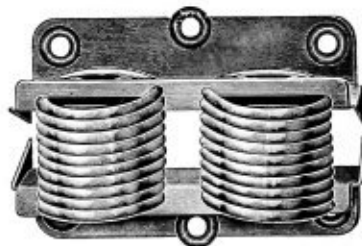
| | | |
|-------------------|--------|-------|
| Size, Inches | 3/8 | 1 |
| Wt. Per Set, Lbs. | 3/8 | 1 1/2 |
| Per Set of Four | \$1.20 | 1.30 |

| | | | | | |
|----------------------|--------|-------|-------|-------|-------|
| Size, Inches | 1 1/4 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Weight Per Set, Lbs. | 1/2 | 5/8 | 1 1/8 | 1 5/8 | 1 3/4 |
| Per Set of Four | \$1.35 | 1.50 | 1.80 | 2.70 | 3.75 |

Open Stock.

ROCKER SPRINGS

SENG ALL-STEEL



Small Double Spring

Per Pair

No. 8 1/2—1/2 in. Stamped Steel Plate, 4 3/4 in. Long.
3 1/4 in. Wide, with Two Steel Springs, 1 1/2 in.
Diameter, Made of No. 8 Wire. \$1.35
Open Stock.

Large Single Spring

Per Pair

No. 6—1/2 in. Stamped Steel
Plate, 4 in. Long, 4 in.
Wide, with One Steel
Spring, 2 1/4 in. Diam-
eter, Made of No. 6
Wire. \$1.20

Open Stock.



HOUSE NUMBERS



EMBOSSSED

Polished Aluminum, Embossed

Per 100

No. 5—3 in. Numbers from 0 to 9
Including Character "1/2"....\$5.00

Twenty-five in a Box, with Pins.



EVERBRITE

"Everbrite" House Numbers are made of Porcelain-tile Blocks, with a Background of White Enamel Glaze.

Each

No. 38—Size Block 3 1/2 x 1 3/4 in.,
1/4 in. Thick, Height of Number
2 1/4 in., Numbers from 0 to 9...\$0.25

Open Stock.

EVERBRITE IN METAL FRAMES



NUMBERS ONLY

Black Numbers, White Porcelain Blocks

Each

No. 32—Size Block
3x2 in., 1/4 in.
Thick, Height of
Figure 2 in., Num-
bers from 0 to
9.....\$0.20

FRAMES ONLY

Aluminum, Black Japanned Finish

Each

No. 32-2—For 2 Numbers.....\$0.25
No. 32-3—For 3 Numbers......25
No. 32-4—For 4 Numbers......25

CAST NUMBERS

Cast Brass

Per 100

No. 1030—Size 3 in., Numbers
0 to 9.....\$30.00

Ten in a Box, with Screws.

Cast Bronze



Size 3 in., Fastened to Wood by Pins Projecting from the Back, Numbers from 0 to 9.

Each

No. B128—Polished Bronze.....\$0.45
No. R128—Antique Copper, Polished... .45
No. EA128—Dull Brass, Natural Color.. .45

Open Stock.

HOUSE NUMBERS

RADIUM



Radium Luminous Metal

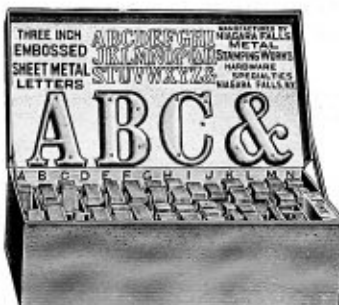
Can be seen plainly in the dark.

Each

No. R—2 1/2 in. Numbers, 0
to 9, Pin Holes for
Fastening.....\$1.00

Open Stock.

EMBOSSSED LETTERS



Brass

Assortments consist of
162 Letters, Six of Each
from A to & inclusive, in
an Attractive Compart-
ment Show Case Box, with
4 Letters Mounted in the
Labeled Cover.

Per Assortment

No. 162—Assortment, 2 in. Letters.....\$18.40
No. 162—Assortment, 3 in. Letters..... 24.80

Packed with Pins for Attaching.

LETTERS IN METAL FRAMES

EVERBRITE



LETTERS ONLY

Black Letters, White Porcelain Blocks

Each

No. 31—Size Block 2 1/2 x 1 1/2 in., 1/4 in. Thick, Height
of Letter 2 in., Letter A to & Inclusive.....\$0.12

FRAMES ONLY

Black Japanned

| Length, Inches.. | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
|------------------|--------|-----|-----|-----|-----|-----|-----|
| Each | \$0.24 | .26 | .31 | .36 | .41 | .45 | .50 |

SCREEN NUMBERS

Wrought Brass, Polished



1/2 in. Heads, Numbers Impressed and Black Enameled.

Per 100

No. 0-99—Numbers from 0 to 99.....\$2.00
Open Stock.

PUSH AND PULL PLATES



No. 847

Wrought Bronze

4 1/4 x 1 3/8 in.

Each

No. 847—Push Plates...\$0.40

No. 857—Pull Plates... .40

Weight Per Box 3/4 Pound.

Ten in a Box, with Screws.



No. 857



Cast Brass, Polished

2 1/4 x 4 in.

Per Dozen

No. 9341 —Push Plates\$12.00

No. 9341 1/2 —Pull Plates 12.00

Weight Per Dozen 2 1/2 Pounds.

One Dozen in a Box, with Screws.

PUSH PLATES

Wrought Steel

12x3 1/2 in.

Per Dozen

No. 3234—Antique Copper, Polished. \$ 4.65

No. 3236—Dull Brass, Natural Color. 4.65

No. 3244—Antique Brass, Sanded.... 5.60

Weight Per Dozen 7 Pounds.

Wrought Bronze

10x2 3/4 in.

No. R2322 1/2—Antique Copper, Polished 8.35

No. EA2322 1/2—Dull Brass, Natural Color 8.35

No. A2322 1/2—Polished Brass 8.35

Weight Per Dozen 5 1/4 Pounds.

12x3 1/2 in.

No. 3279—Antique Copper, Polished. 12.00

No. 3281—Dull Brass, Natural Color. 12.00

No. 3287—Antique Brass, Sanded.... 12.50

Weight Per Dozen 7 Pounds.

16x4 in.

No. 0265—Antique Copper, Polished..... 16.50

No. 0267—Dull Brass, Natural Color..... 16.50

Weight Per Dozen 12 Pounds.

Cast Bronze

14x3 1/2 in.

Each

No. B2342—Polished Bronze\$3.35

No. EA2342—Dull Brass, Natural Color..... 3.35

No. F2342—Nickel Plated, Polished..... 3.65

Weight Per Dozen 10 Pounds.

16x4 in.

No. B2342—Polished Bronze 3.75

No. EA2342—Dull Brass, Natural Color..... 3.75

No. E2342—Nickel Plated, Polished..... 4.10

Weight Per Dozen 13 Pounds.

One-half Dozen in a Box, with Screws.

PUSH PLATES

Wrought Bronze

12x3 in.

Each

No. B2325 1/2—Polished Bronze\$1.20

No. R2325 1/2—Antique Copper, Polished 1.20

No. EA2325 1/2—Dull Brass, Natural Color 1.20

No. SKA2325 1/2—Sanded Brass, Oxidized and Relieved..... 1.35

No. F2325 1/2—Genuine Rustless Iron. .80

Weight Per Box 4 1/2 Pounds.

16x4 in.

No. R2325 1/2—Polished Bronze 1.95

No. R2325 1/2—Antique Copper Polished 1.95

No. EA2325 1/2—Dull Brass, Natural Color 1.95

No. SKA2325 1/2—Sanded Brass, Oxidized and Relieved..... 2.10

No. F2325 1/2—Genuine Rustless Iron. 1.30

Note—In Ordering, State Size Wanted.

Weight Per Box 7 3/4 Pounds.

Six in a Box, with Screws.

No. 2300—Plate Glass, Beveled

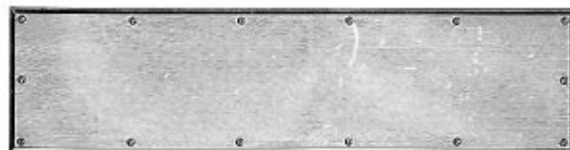
Size, Inches 12x3 15x3 1/2 16x4

Weight Per Dozen, Lbs... 12 1/2 16 1/2 22

Per Dozen \$8.65 10.65 12.00

One-sixth Dozen in a Box, with Screws.

KICK PLATES



Wrought Bronze

No. 14 B. & S. Gauge, Edges Beveled on Three Sides

Per 100 Square Inches

No. B2314—Polished Bronze\$1.80

No. R2314—Antique Copper, Polished..... 1.80

No. EA2314—Dull Brass, Natural Color..... 1.80

No. A2314—Polished Brass 1.80

No. SKA2314—Sanded Brass, Oxidized and Relieved. 2.00

No. F2314—Genuine Rustless Iron..... 1.80

No. 16 B. & S. Gauge, Edges Beveled on Three Sides

No. B2316—Polished Bronze 1.60

No. R2316—Antique Copper, Polished..... 1.60

No. EA2316—Dull Brass, Natural Color..... 1.60

No. A2316—Polished Brass 1.60

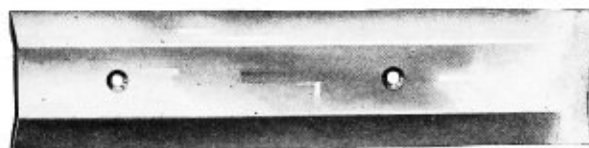
No. SKA2316—Sanded Brass, Oxidized and Relieved. 1.70

No. F2316—Genuine Rustless Iron..... 1.60

Weight Per Square Foot About 3 Pounds.

Open Stock.

THRESHOLDS



Cast Brass or Bronze, Plain or Grooved Top

In 4, 4 1/2 and 5 in. Widths.

Furnished to Order in Any Length.

Prices on Application.

DOOR KNOCKERS



No. 380.



No. 383.



No. 377.



No. 384.

Cast Brass

| | Each |
|---|--------|
| No. 380-DB—8 1/2 x 2 1/2 in., Dull Brass..... | \$5.00 |
| No. 383-DB—7 1/4 x 2 1/4 in., Dull Brass..... | 4.00 |
| No. 377-DB—5 1/2 x 2 1/2 in., Dull Brass..... | 3.50 |
| No. 384-DB—6 3/4 x 3 1/4 in., Dull Brass..... | 3.75 |

The Door Knockers shown above are hand made castings, heavy, well finished, and durably lacquered. They are not modernized in any way by the patternmaker, but are actual impressions from original knockers collected over a long period of time.

Furnished to order in any finish desired to match front door hardware.

One in a Box, with Screws.

ELECTRIC PUSH BUTTONS

FOR USE WITH FRONT DOOR HANDLES



Cast Bronze

2 1/2 x 2 1/2 in.

Each

No. EA75561—Dull Brass, Natural Color or Relieved\$2.00

Weight Per Box 1/2 Pound.

Three in a Box, with Screws.

Cast Bronze

Size 2 in.

Each

No. KA78561 — Dull Brass, Oxidized and Relieved\$4.00

Weight Per Box 1/2 Pound.

Three in a Box, with Screws.



Cast Bronze

1 1/2 x 1 1/2 in.

Each

No. HPE85061—Imitation Half Polished Iron\$2.75

Weight Per Box 1/2 Pound.

Three in a Box, with Screws.



Cast Bronze

3 x 1 1/2 in.

Each

No. KA97461—Dull Brass, Oxidized and Relieved\$4.00

Weight Per Box 1/2 Pound.

Three in a Box, with Screws.



ELECTRIC PUSH BUTTONS

FOR USE WITH FRONT DOOR HANDLES

Cast Bronze

4 1/4 x 1 3/4 in.

Each

No. SHB94261—Statuary Bronze, Light, Sanded\$4.75

Weight Per Dozen 3/4 Pound.

Three in a Box, with Screws.



Cast Bronze

3 1/2 x 1 1/2 in.

Each

No. KA77861—Dull Brass, Oxidized and Relieved\$4.00

Weight Per Box 1/2 Pound.

Three in a Box, with Screws.



With Binding Posts

For 3/4 in. Hole.

Each

No. 25465—Nickel Plated Rim, Light Pearl Center\$1.00

The springs at the side hold the push securely in position.

Weight Per Box 3/4 Pound.

Twelve on a Display Card.



FOR APARTMENT HOUSES

Wrought Bronze

6 5/8 x 2 1/4 in., Name Panel Openings 1 1/2 in. Wide, Standard Centers, Loose Fibre Backs, German Silver Springs, 2 Pushes.

Each

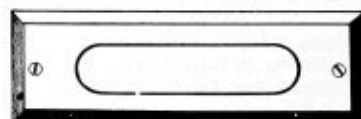
No. 25907-2—Dull Brass.....\$2.00

Weight Per Dozen 4 Pounds.

One-quarter Dozen in a Box, with Screws.



LETTER DROP PLATES



Solid Brass

Size 2 1/2 x 7 in., Opening 1 1/2 x 4 3/4 in., with Back Plate.

Per Dozen

No. 100-AC—Antique Copper\$12.00

No. 100-DB—Dull Brass12.00

Weight Per Dozen 4 Pounds.

Size 2 1/2 x 8 in., Opening 1 1/2 x 6 1/4 in., with Back Plate.

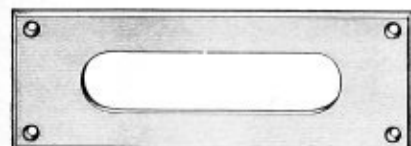
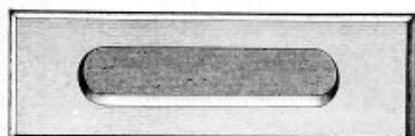
No. 200-AC—Antique Copper15.00

No. 200-DB—Dull Brass15.00

Weight Per Dozen 9 1/4 Pounds.

One-half Dozen in a Box, with Screws.

LETTER DROP PLATES



Cast Iron

Size 2x7 in., Opening 1x4½ in., with Back Plate.

| | | | |
|---------------------------|---------------------------------|------|--------|
| No. R03326¾ | —Antique Copper, Polished..... | Each | \$1.65 |
| No. EA03326¾ | —Dull Brass, Natural Color..... | Each | 1.65 |
| Weight Per Box 5½ Pounds. | | | |

Size 4x10½ in., Opening 2x7 in., with Back Plate.

| | | | |
|---------------------------|---------------------------------|------|------|
| No. EA03424½ | —Dull Brass, Natural Color..... | Each | 2.95 |
| Weight Per Box 11 Pounds. | | | |

Cast Bronze

Size 2x7 in., Opening 1x4½ in., with Back Plate.

| | | | |
|--------------------------|---|------|--------|
| No. B02326¾ | —Polished Bronze | Each | \$3.10 |
| No. R02326¾ | —Antique Copper, Polished..... | Each | 3.10 |
| No. EA02326¾ | —Dull Brass, Natural Color..... | Each | 3.10 |
| No. SKA02326¾ | —Sanded Brass, Antique and Relieved | Each | 3.40 |
| No. F02326¾ | —Genuine Rustless Iron..... | Each | 2.45 |
| Weight Per Box 6 Pounds. | | | |

Size 3½x8 in., Opening 1½x6 in., with Back Plate.

| | | | |
|---------------------------|---------------------------------|------|--------|
| No. EA02906½ | —Dull Brass, Natural Color..... | Each | \$4.65 |
| Weight Per Box 10 Pounds. | | | |

Size 4x10½ in., Opening 2x7 in., with Back Plate.

| | | | |
|----------------------------|---------------------------------|------|--------|
| No. EA02424½ | —Dull Brass, Natural Color..... | Each | \$6.65 |
| Weight Per Box 11 Pounds. | | | |
| Six in a Box, with Screws. | | | |

HOUSE LETTER BOXES

STANDARD

New Fastening Device may be used either as a Lock or Latch. Two Flat Steel Keys.

Size 11x5¼x2¼ in.

Wrought Steel

| | | | |
|----------|-----------------------|-----------|---------|
| No. 1-B | —Black Enameled..... | Per Dozen | \$15.00 |
| No. 1-OC | —Oxidized Copper..... | Per Dozen | 18.00 |

Solid Brass

| | | | |
|----------|------------------|-----------|---------|
| No. 1-SB | —Dull Brass..... | Per Dozen | \$30.00 |
|----------|------------------|-----------|---------|

Weight Per Dozen 22½ Pounds.

Two Dozen in a Case.



HOUSE LETTER BOXES

CORBIN

Wrought Steel

Size 11¼ in. High, 5¼ in. Wide, 2¼ in. Deep.

Spring Attachment for Holding Papers, Secure Lock with 2 Flat Steel Keys.

Per Dozen
No. 2437—Japanned\$12.00

Weight Per Dozen 16 Pounds.

One in a Box, with Screws.



Heavy Wrought Steel

Spring Attachment for Holding Papers, Flat Keyed Lock, with 2 Flat Steel Keys.

Size 11¼x5¼x2¼ in.

Per Dozen
No. 2418—Antique Copper ..\$26.50
No. 2416—Dull Brass 26.50

Weight Per Dozen 25 Pounds.

One in a Box, with Screws.



Heavy Sheet Metal

Spring Attachment for Holding Papers, Secure Lock and 2 Flat Steel Keys.

Size 10½x5¼x3 in.

Per Dozen
No. 2406—Steel, Black Enam-
eled\$24.00
No. 2409—Brass, Dipped and
Lacquered 36.00

Weight Per Dozen 26 Pounds.

One in a Box, with Screws.



Heavy Sheet Metal

This box is constructed of heavy sheet metal, stamped to shape and firmly riveted, and is stronger and more durable than any cast box made.

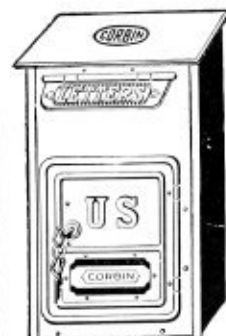
Spring Attachment for Holding Papers, Secure Lock with 2 Flat Steel Keys.

Size 10½x5¼x2¼ in.

Per Dozen
No. 2—Steel, Dull Black Japanned.....\$31.75
No. 4—Steel, Old Copper Finish..... 45.50
No. 10—Brass, Dipped and Lacquered..... 52.75

Weight Per Dozen 40 Pounds.

One in a Box, with Screws.



RURAL MAIL BOXES



Heavy Gauge Steel, Aluminum Finish

No. 1—Inside Measurements 18½ in. Long, 6¼ in. Wide, 7½ in. High, with Slot in Door for Depositing Letters, 20 and 22 Gauge Galvanized Steel, Finished in Aluminum in Accordance with Specifications of U. S. Post Office Department. **\$1.50**

Weight Each 8 Pounds.
Six in a Crate.



Heavy Gauge Steel, Aluminum Finish

No. 1½—14 in. Long, 11 in. High, 4 in. Wide, Complete with a 5 Secure Lever Master Keyed Lock, and Double Signal. **\$6.50**

Weight Each 6¼ Pounds.
One in a Carton.

APARTMENT HOUSE
LETTER BOX FRONTS

Wrought Brass

Size 11½ x 4¾ in.

No. 1700-A —Polished Brass. **\$1.00**
No. 1700-EA—Dull Brass **4.00**

Complete with mouth-piece for speaking tube, electric push button, five secure lever lock, and plate with card for owners name or number. Glass panel in door permits the contents of the box to be seen.

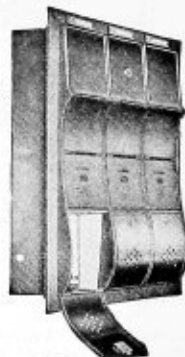
One in a Carton.

APARTMENT HOUSE LETTER
BOXES
CORBIN

Approved by Post Master General for Buildings Housing More than Two Apartments.



Front View.



Side View.

No. 1707—Matted Gold Finish

Made in Batteries of 3, 4, 5 or 6 Boxes.

| Boxes in Battery..... | 3 | 4 | 5 | 6 |
|-----------------------|----------------|--------------|--------------|--------------|
| Width, Inches | 17 | 22 | 27 | 32 |
| Height, Inches | 19½ | 19½ | 19½ | 19½ |
| Depth, Inches | 5½ | 5½ | 5½ | 5½ |
| Each | \$30.00 | 40.00 | 50.00 | 60.00 |

Specifications:

Fronts—Partitions and Face Plates, Solid Brass.
Master or Carrier's Lock—Furnished and Installed by Local Post Office Authorities.
Tenant's Lock—Secure Lever, Two Flat Steel Keys, All Different.
Card Holders—Outside, to Designate Number of Apartment and Name of Tenant; Inside, to Carry Names of Occupants of Apartment; Slot in Front for Calling Cards.

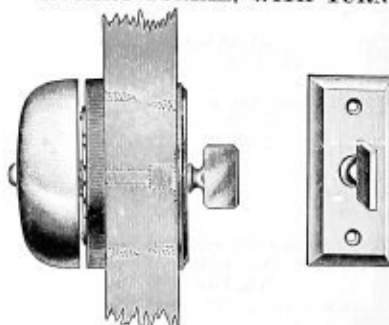
Wall Opening Measurements

| Boxes in Battery..... | 3 | 4 | 5 | 6 |
|-----------------------|-----|-----|-----|-----|
| Width, Inches | 15¼ | 20¼ | 25¼ | 30¼ |
| Height, Inches | 17¾ | 17¾ | 17¾ | 17¾ |
| Depth, Inches | 4¾ | 4¾ | 4¾ | 4¾ |

These Boxes can be installed in connection with vestibule telephones, or furnished with push button and mouth-piece for speaking tube.

DOOR BELLS

ROTARY STRIKE, WITH TURN



Wrought Steel

3½ in. Bell, 3¼ x 1½ in. Bell Turn.

No. R60211—Antique Copper, Polished. **\$15.60**
No. EA60211—Dull Brass, Natural Color. **15.60**

Weight Per Set 1 Pound.

One Set in a Box, with Screws and Connecting Rod.

IRON BOX BELLS



Designed for Long and Hard Service

Specially formed hard fibre in addition to rubber tubing is used where necessary to prevent circuit wires coming in contact with the bell frame.

The armature, striker rod and ball are all made from one piece of metal, preventing trouble caused by a loose ball or rod.

Japanned Steel Case, Nickel Plated Steel Bell

No. 1846—3 in. Bell..... Each
\$1.00
One in a Box.

TRANSFORMERS

BELL RINGING



Porcelain Housed

Moisture and Rust Proof, 12 in. Primary Leads for Easy Installation.

No. 6AS—6 Volts, Weight Each
15 Oz. \$2.00
One in a Carton.

ALARM DOOR BELLS

AUTOMATIC

Nickel Plated



No. 201—Applicable to Any Door
or Wide Sash..... \$0.75

Closing the door sets the operating mechanism so that when door is opened the alarm is sounded. The bell can be made silent by the stop mechanism.

Weight Each ½ Pound.

Cut Quarter Size.

One in a Box, with Screws.

YANKEE



Polished Bell, Japanned Mountings

No. 125—4 in., Bronzed Steel Bell..... Each
\$0.75
One in a Box.

NICHOLS PATENT



Bronzed Steel

No. 171—4 in. Bell..... Each
\$0.75
One in a Box.

FOOT GONGS



Black Shells

Constructed of "Indestructible" Steel and Furnished Complete with Attachments.

| | | | | | | |
|-----------------|---------|-------|-------|-------|-------|-------|
| Nos. | 557 | 558 | 559 | 560 | 561 | 562 |
| Shell, Inches. | 8 | 9 | 10 | 11 | 12 | 14 |
| Wt. Dozen, Lbs. | 75 | 84 | 90 | 96 | 121½ | 157½ |
| Per Dozen | \$23.40 | 24.60 | 26.40 | 30.00 | 31.20 | 37.80 |

Open Stock.

TRIP GONG BELLS



No. 173—Polished Bell Metal

| | | | | |
|--------------------|----------|--------|--------|--------|
| Size Bell, Inches | 3 | 4 | 5 | 6 |
| Weight Dozen, Lbs. | 14 | 19 | 26 | 33 |
| Per Dozen | \$10.00 | 12.50 | 16.50 | 24.00 |
| Size Bell, Inches | 7 | 8 | 9 | 10 |
| Weight Dozen, Lbs. | 63 | 75 | 120 | 132 |
| Per Dozen | \$34.00 | 46.00 | 70.00 | 84.00 |
| Size Bell, Inches | 12 | 14 | 16 | 18 |
| Weight Dozen, Lbs. | 192 | 306 | 420 | 492 |
| Per Dozen | \$150.00 | 212.00 | 260.00 | 310.00 |

All over 8 in. have wood hammers.
Open Stock.

HAND BELLS

Highly Polished Brass, Rubberoid Handle



| No. | Diam. Mouth, In. | Weight Dozen Lbs. | Dozen in Package | Per Dozen |
|-----|------------------|-------------------|------------------|-----------|
| 0 | 2 | 1½ | ½ | \$ 2.00 |
| 1 | 2½ | 2¼ | ½ | 2.62 |
| 2 | 2¾ | 3½ | ½ | 3.50 |
| 4 | 3¾ | 7½ | ½ | 6.50 |
| 6 | 4 | 11¼ | ½ | 11.25 |
| 8 | 5 | 17¼ | ¾ | 18.50 |
| 10 | 5½ | 25 | ¾ | 30.00 |
| 12 | 6½ | 37 | ¾ | 36.00 |
| 14 | 7¼ | 42 | ¾ | 48.00 |
| 15 | 7¾ | 52 | ¾ | 54.00 |

CALL BELLS

Wrought Steel, Nickel Plated

No. 72—3¾ in. Diameter, Wrought Steel Base and Bell, Finely Polished and Heavily Nickel Plated.... \$2.50
Weight Per Dozen 3¼ Pounds.

One-half Dozen in a Box.



SHELF BRACKETS



Wrought Steel

No. 792-J—Japanned

| | | | |
|-----------------------------|---------|--------|------|
| Size, Inches..... | 3x4 | 4x5 | 5x6 |
| Wt. Dozen Pairs, Lbs.... | 3 | 5 | 6 |
| Per Dozen Pairs..... | \$1.90 | 2.50 | 3.25 |
| Size, Inches..... | 5x7 | 6x8 | 7x9 |
| Wt. Dozen Pairs, Lbs.... | 7 | 8 1/2 | 10 |
| Per Dozen Pairs..... | \$3.75 | 4.40 | 5.40 |
| Size, Inches..... | 8x10 | 10x12 | |
| Weight Dozen Pairs, Lbs.... | 12 | 21 1/2 | |
| Per Dozen Pairs..... | \$6.00 | 8.75 | |
| Size, Inches..... | 12x14 | 16x18 | |
| Weight Dozen Pairs, Lbs.... | 28 | 44 | |
| Per Dozen Pairs..... | \$13.75 | 30.00 | |

3x4 and 4x5 in., One Dozen Pairs; 5x6 to 7x9 in., One-half Dozen Pairs; 8x10 to 12x14 in., One-quarter Dozen Pairs; 16x18 in., One Pair in a Box.

No. 492-C—Brass Plated

| | | | | |
|----------------------|---------|-------|-------|-------|
| Size, Inches..... | 3x4 | 4x5 | 5x7 | 6x8 |
| Per Dozen Pairs..... | \$7.00 | 7.50 | 9.00 | 12.00 |
| Size, Inches..... | 7x9 | 8x10 | 10x12 | 12x14 |
| Per Dozen Pairs..... | \$13.00 | 13.50 | 17.50 | 26.25 |

No. 492-N—Nickel Plated

| | | | |
|----------------------|---------|-------|-------|
| Size, Inches..... | 4x5 | 5x7 | 6x8 |
| Per Dozen Pairs..... | \$10.50 | 12.00 | 15.00 |
| Size, Inches..... | 8x10 | 10x12 | 12x14 |
| Per Dozen Pairs..... | \$16.50 | 21.00 | 30.00 |

3x4 and 4x5 in., One Dozen Pairs; 5x7 to 7x9 in., One-half Dozen Pairs; 8x10 to 12x14 in., One-quarter Dozen Pairs in a Box, with Screws.

Wrought Steel, Extra Heavy

No. 790-J—Japanned

| | |
|----------------------------------|---------|
| Size, Inches..... | 16x18 |
| Weight Per Dozen Pairs, Lbs..... | 81 |
| Per Dozen Pairs..... | \$53.00 |

One Pair in a Package.

FOLDING SHELF BRACKETS



Wrought Steel

No. 194-J—Japanned

| | | | |
|----------------------------|---------|-------|-------|
| Size, Inches..... | 8x8 | 12x12 | 16x16 |
| Weight Per Dozen, Lbs..... | 15 | 34 | 55 |
| Per Dozen Pairs..... | \$16.00 | 24.00 | 40.00 |

The best bracket made for folding shelves. Locks automatically when open and can be let down out of the way quickly and easily.

One Pair in a Box.

SHELF SUPPORTS

Cast Iron, Coppered Per Gross

No. C718—3/8 in. Turned Pin, Adjusts
1/2 in. by Inverting.....\$6.40

Weight Per Gross 9 1/2 Pounds.
One-half Gross in a Box.



SHELF SUPPORTS



Per Gross
No. 1764—1/4 in. Pin, Steel, Nickel
Plated.....\$2.70
No. 01764—1/4 in. Pin, Brass, Dipped
and Lacquered.....6.50

Weight Per Gross 2 1/2 Pounds.
One Gross in a Box.

Per Gross
No. C0717—1/4 in. Pin, Cast Iron, Cop-
pered.....\$2.10
No. 717 1/4—1/4 in. Pin, Cast Brass.....8.00



Weight Per Gross 4 1/2 Pounds.
One-half Gross in a Box.



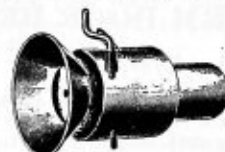
Per Gross
No. C715—5/8 in. Pin, Cast Iron, Cop-
pered, Weight Per Gross 4 3/8 Lbs..\$2.10
No. C719—3/8 in. Pin, Cast Iron, Cop-
pered, Weight Per Gross 5 1/4 Lbs..4.45
One-half Gross in a Box.

Per Gross
No. C0716—1/4 in. Pin, Cast Iron, Cop-
pered.....\$2.10
No. 716 1/4—1/4 in. Pin, Cast Brass.....9.35



Weight Per Gross 4 Pounds.
One-half Gross in a Box.

SPEAKING TUBE WHISTLES



Per Dozen
No. 158—Yellow Enamelled Body, for 1 in. Tubing,
with Indicator and Porcelain Mouthpiece.....\$5.00
No. 158 1/2—Brass, Nickel Plated, with Indicator....8.00
Open Stock.

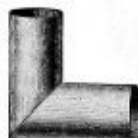
SPEAKING TUBES



Bright Tin

Per 100 Feet
No. 0—1 in., Lock Seamed, in 5 ft. Lengths.....\$5.00
Open Stock.

SPEAKING TUBE ELBOWS AND TEES



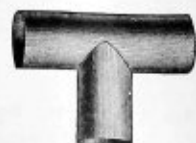
Bright Tin

Each
No. 2—Square, for 1 in. Tubing....\$0.12
Open Stock.

TEES

Bright Tin

Each
No. 7—For 1 in. Tubing.....\$0.14
Open Stock.



HAND RAIL BRACKETS

Cast Iron

2 1/8 in. Base, 2 in. from Base to Center of Rail.

Per Dozen
No. Y102—Amber Bronzed...\$2.65

Weight Per Dozen 5 1/2 Pounds.

One Dozen in a Box, with Screws.

No. 102.

Cast Iron

2 1/8 in. Base, 3 in. from Base to Center of Rail.

Per Dozen
No. Y102 1/2 — Amber
Bronzed\$3.35

Weight Per Dozen 6 1/2 Pounds.

One Dozen in a Box, with Screws.

Cast Iron

3 1/8 x 1 3/8 in. Base, 2 3/4 in. from Base to Center of Rail.

Per Dozen
No. R100 1/2 — Antique
Copper\$3.45

No. EA100 1/2 —Dull Brass,
Natural Color 3.45

Weight Per Dozen 5 3/4 Pounds.

3 1/2 x 1 3/8 in. Base, 4 in. from Base to Center of Rail

Per Dozen
No. R101 1/2 —Antique Copper\$4.20

No. EA101 1/2 —Dull Brass, Natural Color. 4.20

Weight Per Dozen 9 3/4 Pounds.

Cast Bronze

3 1/8 x 1 3/8 in. Base, 2 3/4 in. from Base to Center of Rail.

No. A0100 1/2 —Polished Brass 14.55

Weight Per Dozen 6 1/4 Pounds.

3 1/2 x 1 3/8 in. Base, 4 in. from Base to Center of Rail.

No. A0101 1/2 —Polished Brass 20.00

Weight Per Dozen 10 3/4 Pounds.

One Dozen in a Box, with Screws.



Cast Iron

3 in. Base, 3 1/8 in. from Base to Center of Rail, with 1/2 x 4 in. Lag Screw and Expansion Bolt Shield.

Per Dozen
No. EA104—Dull Brass, Natural Color.....\$10.00

Weight Per Dozen 15 1/2 Pounds.

One Dozen in a Box, with Screws.

No. 271—Wrought Steel, Plain
3/8 in. Rod.

Length, Inches 5 6 7
Per Dozen \$1.60 1.70 1.80

One Dozen in a Box.

HAND RAIL BRACKETS



No. 272—Wrought Steel, Plain

Length, Inches 5 6 7
Per Dozen \$1.50 1.60 1.70

One Dozen in a Box.

HAND RAIL SCREWS



No. 51—Wrought Steel, with One Nut

Diameter 5/8 in.

Length, Inches 4 4 1/2 5
Weight Per Gross, Lbs.. 15 17 19
Per Gross \$9.00 10.00 11.25

One-quarter Gross in a Box.



No. 52—Wrought Steel, with Two Nuts

Diameter 5/8 in.

Length, Inches 4 4 1/2 5
Weight Per Gross, Lbs.. 19 22 26
Per Gross \$10.25 11.25 12.50

One-quarter Gross in a Box, with Two Washers for Each Screw.

WINDOW WASHER BELTS

NATIONAL-ROYAL HOLDFAST



Each
No. 1-A—National-Royal Holdfast Belts.....\$24.00

These belts are made of the best oak tanned leather and Manila rope. All terminals and metal parts are genuine bronze.

Furnished with terminals to fit any type of device, for either a two bolt or four bolt system.

We are prepared to quote on bolts and anchors for installation in any kind of wall, window frame or mullion, or for equipping old buildings.

DOOR BOLTS

IMPROVED "DRAWTITE"



The "Drawtite" Bolt is designed for easy application to ends of single, double or parallel doors. It draws the doors firmly together or against the building making a weatherproof joint. May be locked with an ordinary padlock.

Bolt cannot be removed when locked as it is securely held by a covered screw that is inaccessible.

Malleable Iron, Dead Black Finish

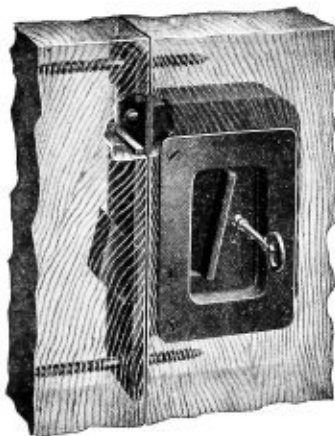
No. 396—With Universal Strike.....Each \$1.50

Weight Each 2 Pounds.

One in a Carton, with Screws.

SLIDING DOOR LOCKS

FOR SINGLE AND DOUBLE DOORS



Dead Black, Rustless Finish

No. 525—4 1/4 x 3 3/4 x 7/8 in. Case, 33 Changes, for Doors 1 1/4 in. Thick or Thicker.....Per Dozen \$30.00

Lock, Latch and Flush Door Pull Combined, Operated from Either Side of Door. Latch is Released and Door Pulled Open by Same Operation. For Use in Garages, Stables, Warehouses, Factories, etc.

Weight Per Dozen 45 Pounds.

One in a Box, with Screws.

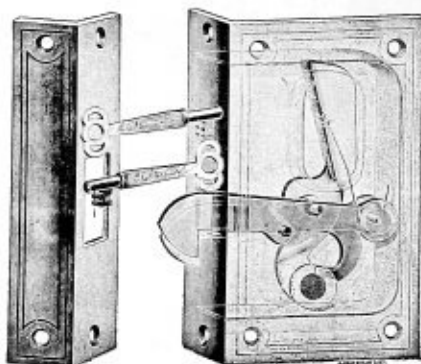
IF IT'S AUTOMOBILE ACCESSORIES

WE HAVE IT

LARGE LINE SHOWN IN OUR 500 PAGE
AUTOMOBILE ACCESSORY CATALOGUE

BARN DOOR LOCKS

FOR SLIDING DOORS



Japanned

Per Dozen

No. 80—7 1/2 x 4 1/4 in. Face, 4 1/2 x 1 1/2 in. Catch Plate, 4 1/2 x 2 1/2 in. Escutcheon, Two Steel Keys.....\$35.00

This Lock is reversible. It may be unlocked from the inside by pulling back the lever.

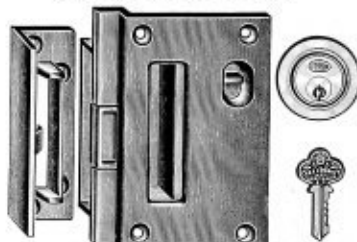
It is impossible to raise the bolt from the outside by inserting any appliance under it between the door and jamb.

Weight Per Dozen 50 Pounds.

One in a Box, with Screws.

GARAGE DOOR LOCKS

FOR SLIDING DOORS



Dead Black Finish

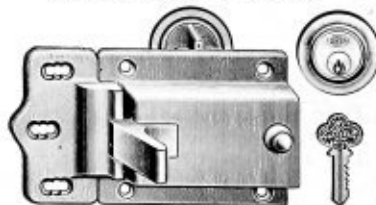
Each

No. 210—5 5/8 x 4 in. Cast Iron Case, Malleable Iron Hinged Self-Latching Latch Bolt, Protected Strike, 1 Cast Bronze Ball Bearing Pin Tumbler Cylinder, Changes Unlimited, 3 Nickel Silver Keys, Operated by Key from Outside and Lever Inside, Latch Bolt May be Held Retracted by Stop, for Sliding Doors 1 1/2 to 3 in. Thick.....\$4.40

Weight Each 2 3/4 Pounds.

One in a Box, with Screws.

FOR SWINGING DOORS



Dead Black Finish

Each

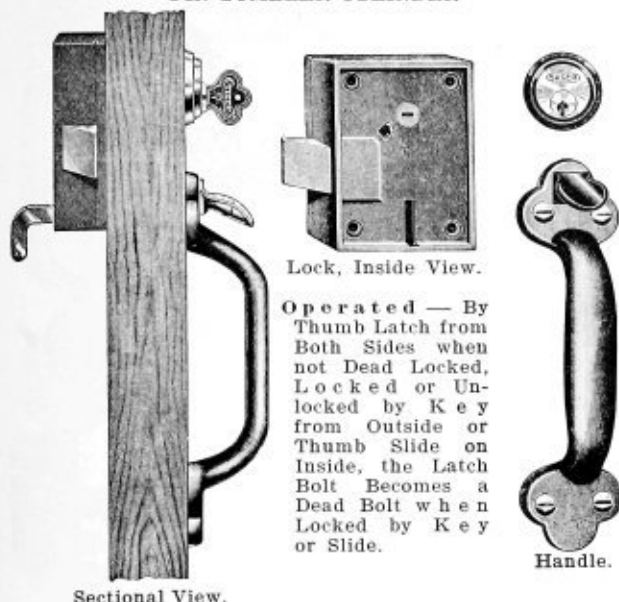
No. 200—4 1/2 x 4 5/8 in. Cast Iron Case, 3 in. Backset, Cast Iron Hinged Self-Latching Latch Bolt, 1 Cast Bronze Ball Bearing Pin Tumbler Cylinder, Changes Unlimited, 3 Nickel Silver Keys, Operated by Key from Outside and Thumb Latch Inside, Bolt May be Held Retracted by Stop, for Pairs of Hinged Doors 1 to 2 3/4 in. Thick, Opening Out.....\$3.90

Weight Each 2 3/4 Pounds.

One in a Box, with Screws.

RIM GARAGE LOCK SETS

PIN TUMBLER CYLINDER



Lock, Inside View.

Operated — By Thumb Latch from Both Sides when not Dead Locked, Locked or Unlocked by Key from Outside or Thumb Slide on Inside, the Latch Bolt Becomes a Dead Bolt when Locked by Key or Slide.

Handle.

Sectional View.

Cast Iron

For Right or Left Hand Doors, Opening In or Out.

No. 1050J—Japanned Finish Per Set \$6.00

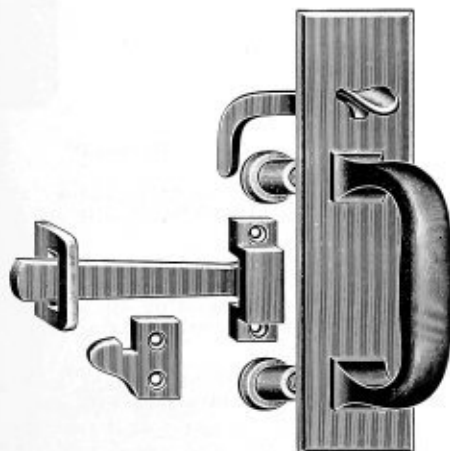
Lock—4½x3¾ in. Japanned Iron Case, 2½ in. Backset, Cast Brass Easy Spring Latch Bolt, Reversible, 3 Nickel Silver Keys.

Handle—One No. 03951, Size 8½x2¼ in.

Weight Per Set 4½ Pounds.

One Set in a Box, with Screws.

MILL DOOR THUMB LATCHES



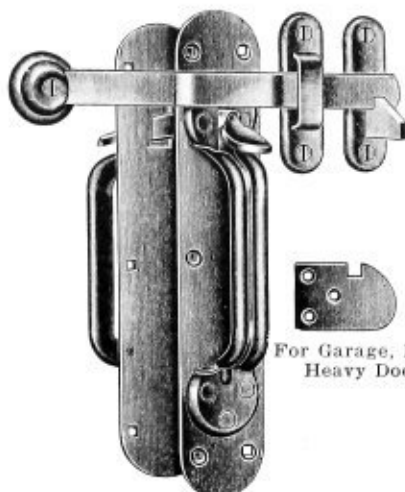
Cast Iron, Japanned

No. 01136—10x2½ in. Plate, for Doors Not Over 2½ in. Thick. Per Dozen \$16.80

Weight Per Dozen 54 Pounds.

One-quarter Dozen in a Box, with Screws.

DUPLEX LATCHES



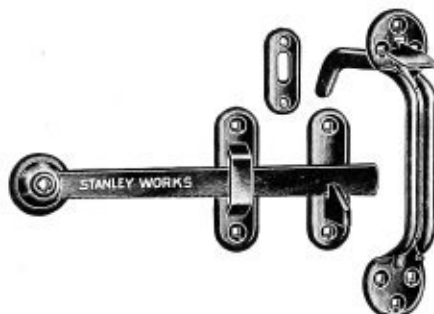
For Garage, Mill or Heavy Doors.

Wrought Steel, Japanned

No. 1264J—12 in. Bar, 14½x2¾ in. Escutcheon Plates, 10½x1¼ in. Handles with Ends 2½ in. Wide, for Doors 1¾ to 3 in. Thick. \$40.25
Weight Per Dozen 75 Pounds.

One in a Box, with Screws and Extra Flush Catch.

GARAGE OR BARN DOOR LATCHES



Wrought Steel, Japanned

No. 1252J—10½ in. Handle, 12 in. Bar. Per Dozen \$18.75

Weight Per Dozen 32 Pounds.

One in a Box, with Screws.

SWINGING DOOR LATCHES

R-W LION



Malleable Iron, Japanned

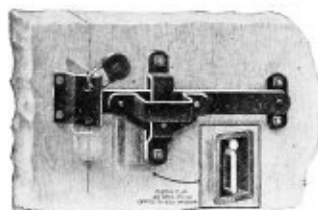
Operated from Either Side, Reversible for Right or Left Hand Doors.

| Nos. | 225-1 | 225-2 | 225-3 | 225-4 |
|-----------------|----------|----------|----------|---------|
| Latch Bar, In. | 1x10 | 1¼x12 | 1½x14 | 1½x14 |
| For Doors, In. | 1¾ to 2½ | 1¾ to 2½ | 1¾ to 2½ | 1¾ to 3 |
| Wt. Dozen, Lbs. | 35 | 42 | 70 | 82 |
| Per Dozen | \$8.00 | 10.00 | 12.00 | 14.40 |

Nos. 225-1 and 225-2, One Dozen; Others, One in a Box.

SLIDING DOOR LATCHES

R-W MONARCH



Wrought Steel, Japanned

Per Dozen
No. 152—1½x14 in.
Latch Bar, 3¾x2½
in. Flush Cup for Use
on Opposite Side of
Door, Reversible for
Right or Left Hand
Doors 1¾ to 2¾ in.
Thick, Operated from
Either Side.....\$11.70

Weight Per Dozen 66 Pounds.
One in a Box.

COTTAGE LATCHES



No. 128—Cast Iron, Enameled.....\$2.80
Weight Per Dozen 8¼ Pounds.
One-half Dozen in a Box.

THUMB LATCHES

Wrought Steel, Japanned

With Padlock Attachment.

Per Dozen

No. 1260J-2—6¾ in. Han-
dle, Weight Per Dozen
6 Lbs.\$ 3.75

No. 1260J-3—7½ in. Han-
dle, Weight Per Dozen
10 Lbs. 5.75

No. 1260J-4—8¾ in. Han-
dle, Weight Per Dozen
20 Lbs. 11.40
One in a Box, with Screws.



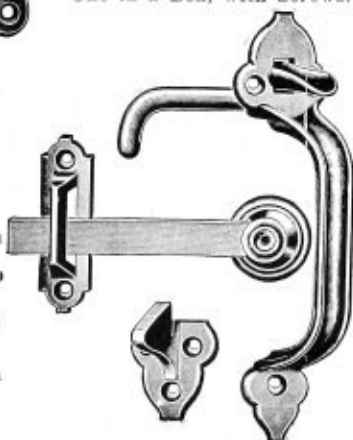
Cast Iron, Japanned

Wrought Steel Bar.

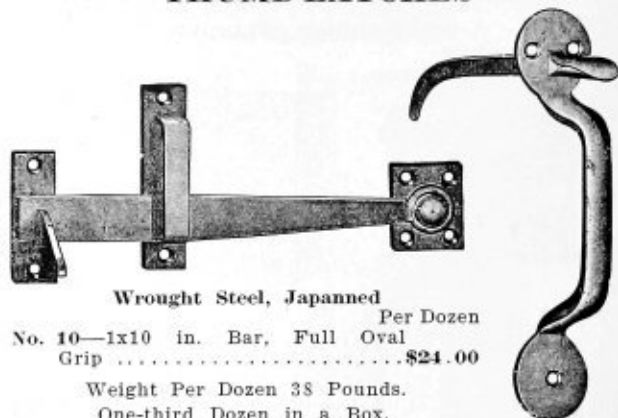
Per Dozen
No. 25—9½ in. Han-
dle\$4.80

Weight Per Dozen 21½
Pounds.

One-quarter Dozen in a
Box, with Screws.



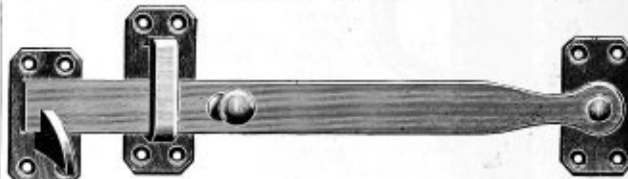
THUMB LATCHES



Wrought Steel, Japanned

Per Dozen
No. 10—1x10 in. Bar, Full Oval
Grip\$24.00

Weight Per Dozen 38 Pounds.
One-third Dozen in a Box.



Wrought Steel, Japanned

Per Dozen
No. 20—1¼x12½ in. Bar, 11½x2
in. Plate, Full Oval Grip.....\$51.00

Weight Per Dozen 48 Pounds.

One-sixth Dozen in a Box.

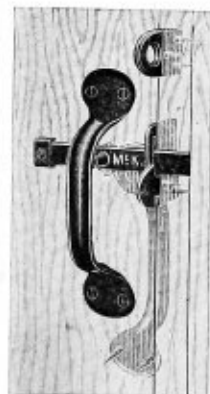


DUOGRIP

The Duogrip Latch affords a
roomy handle or grip on each side
of the door.

Designed for use on doors of
garages, barns, warehouses, etc.
Can be used on either right or left
hand doors, swinging either in or
out.

A pair of wrought steel padlock
eyes is furnished with each latch.



Wrought Steel, Japanned

Per Dozen
No. 1945—Thumb Piece Handle 7¼ in., Larger
Handle 8¼ in., Latch Bar 6¼ in., 2 Screw
Holes at Top and Bottom of Each Handle....\$12.50

Weight Per Dozen 21 Pounds.

One Latch in a Box, with Screws and Directions for
Attaching.

DOOR PULLS



Wrought Steel, Japanned

Per Dozen
No. 1265J — 10 1/2 in.
Long Over All, 1 1/4
in. Wide, 2 1/2 in.
Wide at Ends... \$9.40

For garages, stables,
freight cars, etc.Weight Per Dozen 8
Pounds.One-half Dozen in a Box,
with Screws.

Wrought Steel, Japanned

No. 482J-1
Length, In. 5
Width Plate, In. 1 1/4
Wt. Dozen, Lbs. 1 1/2
Per Dozen... \$1.90

No. 482J-2
Length, In. 5
Width Plate, In. 1 1/2
Wt. Dozen, Lbs. 1 1/2
Per Dozen... \$2.15

No. 482J-3
Length, In. 6
Width Plate, In. 1 3/4
Wt. Dozen, Lbs. 2 1/2
Per Dozen... \$2.50

No. 482J-4
Length, In. 7
Width Plate, In. 2 1/4
Wt. Dozen, Lbs. 5
Per Dozen... \$6.20

No. 482J-4, One-half Dozen, Others,
One Dozen in a Box, with Screws.

Wrought Steel, Japanned

No. 1257J-1
Length, In. 5 1/4
Screw Holes... 2
Wt. Dozen, Lbs. 1
Per Dozen... \$1.50

No. 1257J-2
Length, In. 6 1/2
Screw Holes... 2
Wt. Dozen, Lbs. 1 1/2
Per Dozen... \$2.00

No. 1257J-3
Length, In. 7 1/2
Screw Holes... 4
Wt. Dozen, Lbs. 3
Per Dozen... \$3.65

No. 1257J-4
Length, In. 9
Screw Holes... 4
Wt. Dozen, Lbs. 6
Per Dozen... \$7.15

No. 1257J-4, One-half Dozen, Others,
One Dozen in a Box, with Screws.

DOOR PULLS



Cast Iron, Japanned

Per Dozen
No. 8-8 in., Weight Per Dozen
8 Lbs. \$3.00
One Dozen in a Box.



Cast Iron, Japanned

Per Dozen
No. 02207-6 in., Weight Per
Dozen 6 1/2 Lbs. \$1.50

Cast Bronze, Polished

No. 02209-6 in., Weight Per
Dozen 7 1/2 Lbs. 20.00
One-half Dozen in a Box, with Screws.



Cast Bronze

Length 6 in.

Per Dozen
No. B02209 1/2 — Polished
Bronze \$17.60
No. EA02209 1/2 — Dull Brass,
Natural Color 17.60
No. F02209 1/2 — Genuine Rust-
less Iron 12.00
Weight Per Dozen 4 1/2 Pounds.
One-half Dozen in a Box, with Screws.

DOOR PULLS

Cast Bronze

Length 5 1/4 in.

Per Dozen
No. B1791 1/2 — Polished
Bronze \$7.20
No. R1791 1/2 — Antique
Copper, Polished 7.20
No. EA1791 1/2 — Dull
Brass, Natural Color 7.20
No. A1791 1/2 — Polished
Brass 7.20
No. SKA1791 1/2 — Sanded
Brass, Oxidized and Re-
lieved 7.75
No. E1791 1/2 — Nickel Plat-
ed, Polished 7.75
No. F1791 1/2 — Genuine
Rustless Iron 4.90

Weight Per Dozen 2 1/4 Pounds.
One Dozen in a Box, with Screws.

Cast Bronze

Length 3 1/2 in.

Per Dozen
No. B1697 — Polished
Bronze \$3.20
Weight Per Dozen 5/8 Pound.

Length 4 3/4 in.

No. B1698 — Polished
Bronze 4.45
Wt. Per Dozen 1 1/4 Pounds.
No. 1697, Three Dozen; No.
1698, One Dozen in a Box,
with Screws.

Wrought Steel

Length 5 in.

Per Dozen
No. 580 — Antique Copper \$0.65
582 — Dull Brass, Nat-
ural Color .65

Wrought Brass

Length 5 in.

No. 591 — Dull Brass,
Natural Color \$1.25
Weight Per Dozen 3/4 Pound.
Three Dozen in a Box, with
Screws.

Steel Wire

Length 4 1/2 in.

Per Gross
No. 34 1/2 — Japanned \$1.65
No. 534 1/2 — Brass Plat-
ed 1.65
Weight Per Dozen 5/8 Pound.
Six Dozen in a Box.

OUR BUILDERS HARDWARE
DEPARTMENT is in a position to
furnish estimates on your hard-
ware requirements according to
plans and specifications.

DOOR PULLS



Cast Bronze

7 5/8 x 2 in.

Each

- No. R02210—Antique Copper, Polished \$1.80
 No. EA02210—Dull Brass, Natural Color 1.80
 No. A02210—Polished Brass 1.80
 Weight Per Dozen 14 1/2 Pounds.
 One-quarter Dozen in a Box, with Screws.

Cast Bronze

With Machine Screws and Nuts to Fasten to Push Plate or Through Door.

7 5/8 x 2 in., 5 1/2 in. Center to Center.

Each

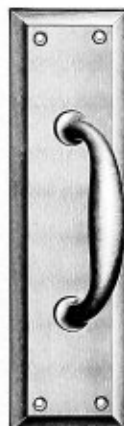
- No. R02210 1/4—Antique Copper, Polished \$2.00
 No. EA02210 1/4—Dull Brass, Natural Color 2.00
 No. A02210 1/4—Polished Brass 2.00
 Weight Per Dozen 16 3/4 Pounds.

10 x 2 in., 7 3/8 in. Center to Center.

- No. R02210 1/2—Antique Copper, Polished 4.00
 No. EA02210 1/2—Dull Brass, Natural Color 4.00
 No. A02210 1/2—Polished Brass 4.00

Weight Per Dozen 20 3/4 Pounds.

One-quarter Dozen in a Box.



Wrought Bronze

10 x 2 3/4 in.

Each

- No. R4446—Antique Copper, Polished \$2.35
 No. EA4446—Dull Brass, Natural Color 2.35
 No. A4446—Polished Brass 2.35
 Weight Each 1 Pound.

Cast Bronze.

14 x 3 1/2 in.

Each

- No. A4460—Polished Brass \$4.90
 No. EA4460—Dull Brass, Natural Color 4.90
 No. E4460—Nickel Plated, Polished 5.35

Weight Each 2 Pounds.

16 x 4 in.

- No. A4462—Polished Brass 7.10
 No. EA4462—Dull Brass, Natural Color 7.10
 No. E4462—Nickel Plated, Polished 7.75

Weight Each 2 1/2 Pounds.

Three in a Box, with Screws.

SEND US YOUR

SPECIFICATIONS

FOR ESTIMATES ON YOUR BUILDERS'
HARDWARE

FLUSH DOOR PULLS



Cast Iron

3 3/4 x 2 1/2 in.

Per Dozen

- No. 1100—Japanned \$1.65
 Weight Per Dozen 4 1/2 Pounds.

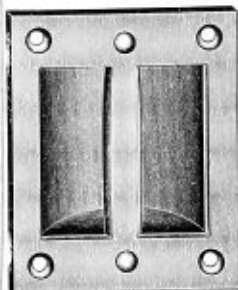
Cast Bronze

3 3/4 x 2 1/2 in.

- No. A01100—Polished Brass 21.35

Weight Per Dozen 5 Pounds.

One Dozen in a Box, with Screws.



Cast Iron

5 x 4 in.

Per Dozen

- No. 2100—Japanned \$10.55
 Weight Per Dozen 16 1/4 Pounds.

Cast Bronze

- No. A02100—Polished Brass \$66.65

Weight Per Dozen 19 3/4 Pounds.

One-half Dozen in a Box, with Screws.

FRICTION TOILET HINGES



Wrought Steel, Coppered

Per Dozen Pairs

- No. 1760—1 1/4 x 1 3/4 in., Weight Per Dozen Pairs 1 1/2 Lbs. \$1.50
 No. 1761—2 x 2 1/2 in., Weight Per Dozen Pairs 3 1/2 Lbs. 2.00

One Dozen Pairs in a Box.

MIRROR PLATES

Wrought Brass, Polished



- | Nos. | 877 | 878 | 881 |
|--------------------|--------|-------|-------|
| Size, Inches | 1 1/8 | 1 1/4 | 1 5/8 |
| Weight Gross, Lbs. | 4 1/2 | 6 | 8 1/4 |
| Per Dozen | \$0.45 | .55 | .80 |

No. 881 has Five Screw Holes.

One Gross in a Box, with Screws.

PORCH POST IRONS

ARCH PATTERN



Cast Iron, Japanned

Per Dozen

- No. 1—2 x 5 1/2 in. \$1.50
 Weight Per Dozen 9 Pounds.
 Open Stock.

ELEVATOR DOOR HANGERS

SELF-LOCKING LOOSE AXLE



Smooth Cast Iron, Japanned, for Wire Doors

Turned Wheels, Turned Steel Pin, Smooth Working, Noiseless, Strong and Durable.

Per Dozen Pairs
 No. 330—3 in. Diameter Wheel, for Use with $2\frac{1}{4} \times \frac{5}{8}$ in. Rail, Weight Per Dozen Pairs 36 Lbs. \$48.00
 Open Stock.

ANTI-FRICTION

Smooth Cast Iron, Japanned, for Wire Doors

Turned Wheels, Turned Steel Pin, Smooth Working, Noiseless, Strong and Durable.

Per Dozen Pairs
 No. 332—3 in. Diameter Wheel, for Use with $2 \times \frac{5}{8}$ in. Rail, Weight Per Dozen Pairs 32 Lbs. \$36.00
 Open Stock.



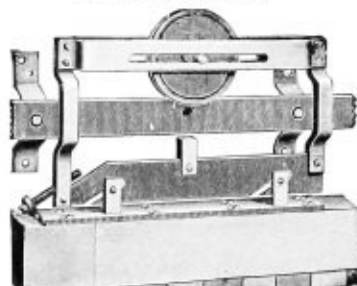
Smooth Cast Iron, Japanned, for Wire Doors

Turned Wheels, Turned Steel Pin, Smooth Working, Noiseless, Strong and Durable.

Per Dozen Pairs
 No. 333— $2\frac{1}{4}$ in. Diameter Wheel, for Use with $1\frac{1}{4} \times \frac{1}{4}$ in. Rail, Weight Per Dozen Pairs 18 Lbs. \$36.00
 Open Stock.

PARLOR DOOR HANGERS

LANE STANDARD



Heavy All Steel Frame, Silent Wheel To Run 4 Feet.

For Double Doors

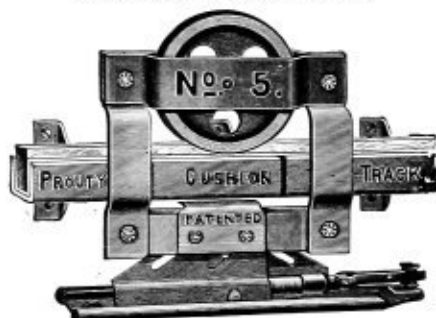
Per Set
 No. 102—Set of 4 Hangers, with 14 ft. of Track, Gravity Stops, Striking Plates, Floor Guides and All Screws, Weight Per Set 37 Lbs. \$6.00

For Single Doors

No. 102½—Set of 2 Hangers, with 8 ft. of Track, Floor Guide and All Screws, Weight Per Set 20 Lbs. 3.00
 Extra Track—In Lengths of 7, 8 and 10 ft. Per Foot, .20

The Lane "Standard" hanger is built very heavy and strong and without any cast metal anywhere in its construction. A very extensively used type of parlor door hanger.

One Set in a Box.

PROUTY CUSHION TRACK

All Steel Hardened Axle, Hard Maple Rail

For Double Doors

Per Set
 No. 5D—Set of 4 Hangers, with 14 ft. of Track, Weight Per Set 25 Lbs. \$11.00

For Single Doors

No. 5S—Set of 2 Hangers, with 8 ft. of Track, Weight Per Set 13 Lbs. 5.50
 Extra Track—In Lengths of 7, 8 and 10 ft. Per Foot, .12

The special locking adjustment on the Hanger for raising or lowering the door is absolutely positive, for it is designed with a horizontal adjustment screw, which does not carry the weight of the door, but is used for adjustment only. It prevents the door from sagging and keeps it always in place.

The Hanger is fitted with special noiseless bearings, the tread being turned true to fit track. The axle is hardened and sound-deadening felt compression washers carefully protected by steel stationary washers prevent the wheel from side-play or rattle.

The track is especially constructed for No. 5 Hanger only. The hard maple rail is thoroughly kiln dried and mounted in a felt cushion supported by metal case.

The felt roll floor guides align and guide the door perfectly without binding.

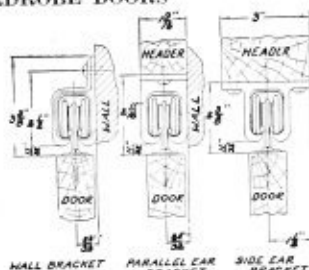
One Set in a Box, with Screws.

COBURN TROLLEY DOOR HANGERS

FOR PORCH SASH AND SCREENS, CHINA CLOSETS
AND WARDROBE DOORS



No. 99 Hanger.



Machined Iron or Fibre Wheels, Roller Bearings
For Loads up to 20 Pounds.

| | |
|----------------------------------|--------|
| No. 99 —Iron Wheels | Each |
| No. 99-F—Fibre Wheels | \$0.50 |
| For use with No. 0 Track Only. | .60 |
| Weight Each $\frac{1}{4}$ Pound. | |
| Packed as Ordered, with Screws. | |

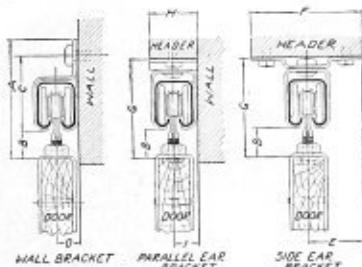
Machined Iron or Fibre Wheels, Roller
Bearings, Vertical Adjustment
For Loads up to 40 Pounds.

| | |
|----------------------------------|--------|
| No. 98 —Iron Wheels | Each |
| No. 98-F—Fibre Wheels | \$0.80 |
| For use with No. 0 Track Only. | 1.00 |
| Weight Each $\frac{3}{4}$ Pound. | |
| Packed as Ordered, with Screws. | |

FOR USE WHERE DOORS SLIDE INTO POCKET OR
PARALLEL TO EACH OTHER



No. 150.



Machined Iron Wheels, Roller Bearing, Lock Nut Vertical
Adjustment Only

| | | | |
|---------------------------|----------------|----------------|------|
| Nos. | 150A | 150B | 150C |
| For Track, Nos. | 1 | 2 | 4 |
| For Doors, Lbs. | 300 | 500 | 900 |
| Min. Thick. of Doors, In. | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 2 |
| Weight Per Pair, Lbs. | 5 | 7 | 11 |
| Per Pair | \$3.50 | 4.25 | 6.75 |

HEADROOM TABLE FOR No. 150 HANGER

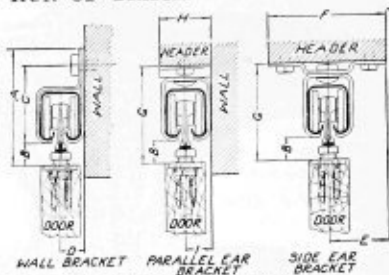
| No. | A | | B | | C | D |
|------|----------------|----------------|---------------|----------------|----------------|----------------|
| | Min. | Max. | Min. | Max. | | |
| 150A | $5\frac{1}{4}$ | $7\frac{1}{2}$ | 1 | $2\frac{3}{4}$ | $3\frac{1}{2}$ | $1\frac{1}{2}$ |
| 150B | $6\frac{1}{2}$ | $7\frac{1}{2}$ | $\frac{3}{4}$ | $2\frac{3}{4}$ | $4\frac{3}{4}$ | $1\frac{1}{2}$ |
| 150C | $7\frac{1}{4}$ | 9 | $\frac{7}{8}$ | $2\frac{5}{8}$ | $5\frac{1}{2}$ | $1\frac{1}{2}$ |

| No. | E | F | G | | H | I |
|------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | Min. | Max. | | |
| 150A | $2\frac{5}{8}$ | $5\frac{1}{4}$ | $4\frac{1}{4}$ | $6\frac{1}{8}$ | $2\frac{3}{4}$ | $1\frac{1}{2}$ |
| 150B | $2\frac{5}{8}$ | $5\frac{1}{4}$ | $5\frac{1}{8}$ | $6\frac{1}{8}$ | $2\frac{3}{4}$ | $1\frac{1}{2}$ |
| 150C | $3\frac{1}{8}$ | $6\frac{1}{8}$ | $6\frac{1}{8}$ | $7\frac{1}{8}$ | $3\frac{1}{4}$ | $1\frac{1}{2}$ |

One Pair in a Box, with Screws.

COBURN TROLLEY DOOR HANGERS

FOR USE WHERE DOORS SLIDE TO SIDE ON SINGLE
RUN OF TRACK



Machined Iron Wheels, Roller Bearing

Steel Pendant, Cast Iron Petticoat, Lateral Adjustment
Only.

| | | | |
|------------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 120A | 120B | 120C |
| For Track, Nos. | 1 | 2 | 4 |
| For Doors, Lbs. | 400 | 600 | 1000 |
| Thickness of Door, In. | $1\frac{1}{4}$ to $1\frac{3}{4}$ | $1\frac{3}{4}$ to $2\frac{1}{2}$ | $2\frac{1}{4}$ to $3\frac{1}{2}$ |
| Weight Per Pair, Lbs. | 7 | 10 | 20 |
| Weight Per Set, Lbs. | $12\frac{1}{2}$ | 16 | 40 |
| Per Pair | \$3.25 | 4.00 | 6.50 |

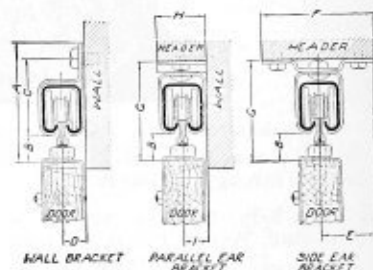
Note—A Set of Door Hangers contains Two Hangers,
One Pair of End Wall Brackets and One Open Wall
Bracket.

HEAD ROOM TABLE FOR No. 120 HANGER

| No. | A | B | C | D | E | F | G | H | I |
|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 120A | $5\frac{1}{4}$ | $1\frac{1}{2}$ | $3\frac{1}{2}$ | $1\frac{1}{2}$ | $2\frac{5}{8}$ | $5\frac{1}{4}$ | $4\frac{1}{4}$ | $2\frac{3}{4}$ | $1\frac{1}{2}$ |
| 120B | $6\frac{1}{2}$ | 1 | $4\frac{1}{4}$ | $1\frac{1}{2}$ | $2\frac{5}{8}$ | $5\frac{1}{4}$ | $5\frac{1}{8}$ | $2\frac{3}{4}$ | $1\frac{1}{2}$ |
| 120C | $7\frac{1}{2}$ | $1\frac{1}{8}$ | $5\frac{1}{8}$ | $1\frac{1}{8}$ | $3\frac{1}{8}$ | $6\frac{1}{8}$ | $6\frac{1}{8}$ | $3\frac{1}{4}$ | $1\frac{1}{2}$ |

One Pair or One Set in a Box, with Screws and Bolts.

FOR SINGLE OR SLIDING DOORS



Machined Iron Wheels, Roller Bearing

Steel Pendant and Petticoat, Lateral and Vertical Adjustment.

| | | | |
|------------------------|----------------------------------|----------------------------------|----------------------------------|
| Nos. | 137A | 137B | 137C |
| For Track, Nos. | 1 | 2 | 4 |
| For Doors, Lbs. | 400 | 600 | 1000 |
| Thickness of Door, In. | $1\frac{1}{4}$ to $1\frac{3}{4}$ | $1\frac{3}{4}$ to $2\frac{1}{2}$ | $2\frac{1}{4}$ to $3\frac{1}{2}$ |
| Weight Per Pair, Lbs. | 7 | 9 | 21 |
| Per Pair | \$3.50 | 4.25 | 6.75 |

HEAD ROOM TABLE FOR No. 137 HANGER

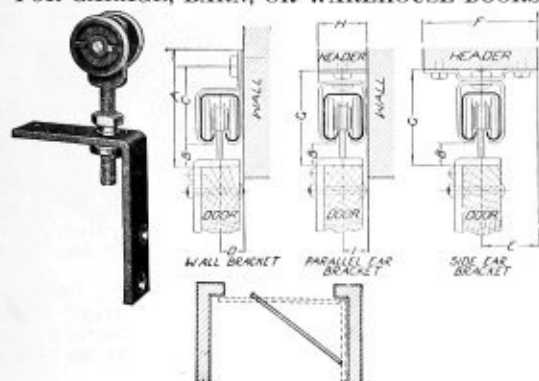
| No. | A | | B | | C | D |
|------|----------------|----------------|----------------|----------------|----------------|----------------|
| | Min. | Max. | Min. | Max. | | |
| 137A | $5\frac{1}{8}$ | $7\frac{3}{8}$ | $1\frac{1}{8}$ | $3\frac{1}{8}$ | $3\frac{1}{2}$ | $1\frac{1}{2}$ |
| 137B | $6\frac{1}{2}$ | $8\frac{1}{8}$ | 1 | $2\frac{5}{8}$ | $4\frac{3}{4}$ | $1\frac{1}{2}$ |
| 137C | $7\frac{3}{8}$ | $9\frac{3}{8}$ | $1\frac{1}{4}$ | 3 | $5\frac{1}{2}$ | $1\frac{1}{2}$ |

| No. | E | F | G | | H | I |
|------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | Min. | Max. | | |
| 137A | $2\frac{5}{8}$ | $5\frac{1}{4}$ | $4\frac{1}{8}$ | $6\frac{1}{8}$ | $2\frac{3}{4}$ | $1\frac{1}{2}$ |
| 137B | $2\frac{5}{8}$ | $5\frac{1}{4}$ | $5\frac{1}{8}$ | $7\frac{1}{8}$ | $2\frac{3}{4}$ | $1\frac{1}{2}$ |
| 137C | $3\frac{1}{8}$ | $6\frac{1}{8}$ | $6\frac{1}{8}$ | $8\frac{1}{8}$ | $3\frac{1}{4}$ | $1\frac{1}{2}$ |

One Pair in a Box, with Bolts.

COBURN TROLLEY DOOR HANGERS

FOR GARAGE, BARN, OR WAREHOUSE DOORS



Machined Iron Wheels, Roller Bearings
Ball Bearing Swivel, Vertical Adjustment.

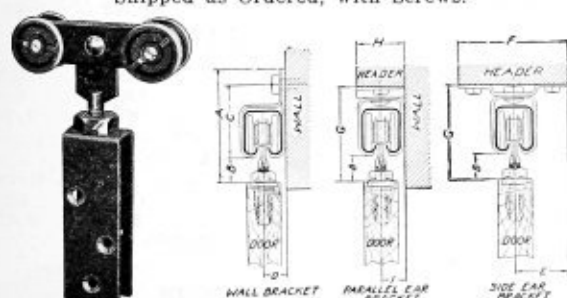
| Nos. | 395A | 395B | 395C |
|----------------------------|--------|-------|------|
| For Track, Nos. | 1 | 2 | 4 |
| For Doors, Lbs. | 300 | 500 | 900 |
| Min. Thick'n of Doors, In. | 1 1/2 | 1 3/4 | 2 |
| Weight Per Pair, Lbs. | 4 | 6 | 12 |
| Per Pair | \$3.80 | 5.00 | 7.60 |

HEAD ROOM TABLE FOR No. 395 HANGER

| No. | A | | B | | C | D |
|------|-------|--------|-------|-------|-------|-------|
| | Min. | Max. | Min. | Max. | | |
| 395A | 5 3/8 | 7 1/4 | 1 1/8 | 3 | 3 1/2 | 1 1/8 |
| 395B | 6 3/4 | 8 1/2 | 1 3/8 | 2 1/8 | 4 3/8 | 1 3/8 |
| 395C | 7 3/4 | 10 1/8 | 1 3/4 | 4 1/8 | 5 1/2 | 1 3/4 |

| No. | E | F | G | | H | I |
|------|-------|-------|-------|-------|-------|-------|
| | | | Min. | Max. | | |
| 395A | 2 5/8 | 5 1/4 | 4 1/8 | 6 1/4 | 2 1/4 | 1 1/8 |
| 395B | 2 5/8 | 5 1/4 | 5 3/4 | 7 1/2 | 2 1/4 | 1 1/8 |
| 395C | 3 1/8 | 6 3/8 | 6 3/8 | 9 1/8 | 3 1/4 | 1 1/8 |

Shipped as Ordered, with Screws.



Machined Iron Wheels, Roller Bearing

Steel Pendant and Petticoat, Lateral and Vertical Adjustment.

| Nos. | 160A | 160B | 160C |
|-------------------------|----------------|----------------|----------------|
| For Track, Nos. | 1 | 2 | 4 |
| For Doors, Lbs. | 400 | 600 | 1000 |
| Thickness of Doors, In. | 1 1/4 to 1 3/4 | 1 3/4 to 2 1/4 | 2 1/4 to 3 1/2 |
| Weight Per Pair, Lbs. | 7 | 9 | 15 |
| Per Pair | \$4.50 | 5.25 | 7.75 |

HEAD ROOM TABLE FOR No. 160 HANGER

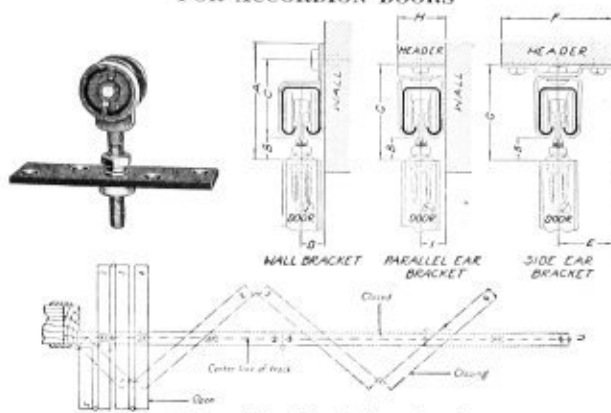
| No. | A | | B | | C | D |
|------|-------|-------|-------|-------|-------|-------|
| | Min. | Max. | Min. | Max. | | |
| 160A | 5 3/8 | 7 3/8 | 1 1/8 | 3 1/8 | 3 1/2 | 1 1/8 |
| 160B | 6 3/8 | 8 3/8 | 1 3/8 | 2 5/8 | 4 3/8 | 1 3/8 |
| 160C | 7 3/8 | 9 3/8 | 1 3/4 | 3 1/8 | 5 1/2 | 1 3/4 |

| No. | E | F | G | | H | I |
|------|-------|-------|-------|-------|-------|-------|
| | | | Min. | Max. | | |
| 160A | 2 5/8 | 5 1/4 | 4 3/8 | 6 3/8 | 2 1/4 | 1 1/8 |
| 160B | 2 5/8 | 5 1/4 | 5 3/8 | 7 3/8 | 2 1/4 | 1 1/8 |
| 160C | 3 1/8 | 6 3/8 | 6 3/8 | 8 3/8 | 3 1/4 | 1 1/8 |

One Pair in a Box, with Bolts.

COBURN TROLLEY DOOR HANGERS

FOR ACCORDION DOORS



Cast Iron Wheels, Roller Bearings
Ball Bearing Swivel, Vertical Adjustment.

| Nos. | 375A | 375B | 375C |
|----------------------------|--------|-------|-------|
| For Track, Nos. | 1 | 2 | 4 |
| For Doors, Lbs. | 200 | 400 | 600 |
| Min. Thick'n of Doors, In. | 1 1/2 | 1 1/2 | 2 |
| Weight Per Pair, Lbs. | 2 1/2 | 3 1/2 | 5 1/2 |
| Per Pair | \$2.60 | 3.25 | 4.55 |

A hanger is required for every other door starting with the full door next to the half door. Each door with hanger should have flush butt at bottom.

One run of track full width of opening is required.

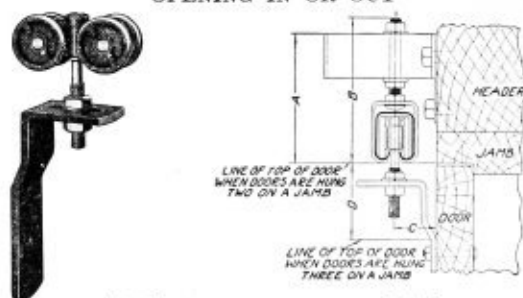
HEAD ROOM TABLE FOR No. 375 HANGER

| No. | A | | B | | C | D |
|------|-------|--------|-------|-------|-------|-------|
| | Min. | Max. | Min. | Max. | | |
| 375A | 5 3/8 | 6 3/8 | 7/8 | 2 3/4 | 3 1/2 | 1 1/8 |
| 375B | 6 3/8 | 8 3/8 | 1 1/8 | 2 3/4 | 4 3/8 | 1 3/8 |
| 375C | 7 3/8 | 10 3/8 | 1 3/4 | 3 1/8 | 5 1/2 | 1 3/4 |

| No. | E | F | G | | H | I |
|------|-------|-------|-------|-------|-------|-------|
| | | | Min. | Max. | | |
| 375A | 2 5/8 | 5 1/4 | 4 3/8 | 6 | 2 1/4 | 1 1/8 |
| 375B | 2 5/8 | 5 1/4 | 5 3/8 | 7 3/8 | 2 1/4 | 1 1/8 |
| 375C | 3 1/8 | 6 3/8 | 6 3/8 | 9 3/8 | 3 1/4 | 1 1/8 |

One Pair in a Box, with Screws.

FOR DOORS WHICH SLIDE AND FOLD TO THE SIDE
OPENING IN OR OUT



Cast Iron Wheels, Ball Bearing

Lateral and Vertical Adjustments. Adjustable Wall Brackets are necessary with this Hanger.

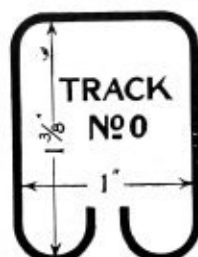
| Nos. | 444A | 444B | 444C |
|------------------------|----------------|----------------|----------------|
| For Track, Nos. | 1 | 2 | 4 |
| For Doors, Lbs. | 125 | 200 | 400 |
| Thickness of Door, In. | 1 1/4 to 1 3/4 | 1 3/4 to 2 1/2 | 2 1/2 to 3 1/2 |
| Weight Each, Lbs. | 3 | 3 3/4 | 8 |
| Each | \$2.95 | 3.60 | 5.50 |

HEAD ROOM TABLE FOR No. 444 HANGER

| No. | A | | B | C | | D | |
|------|-------|-------|-------|-------|-------|-------|-------|
| | Min. | Max. | | Min. | Max. | Min. | Max. |
| 444A | 5 7/8 | 6 7/8 | 6 3/8 | 1 1/8 | 2 1/8 | 3 3/8 | 4 1/2 |
| 444B | 6 3/8 | 7 3/8 | 7 3/8 | 1 3/8 | 2 3/8 | 3 3/8 | 4 1/2 |
| 444C | 7 1/4 | 7 3/8 | 8 3/8 | 1 3/4 | 3 1/8 | 4 1/8 | 4 7/8 |

Packed Complete with Screws and Bolts for Attaching.

COBURN TROLLEY TRACK



Wrought Steel, Dead Black Finish

| | | |
|-----------------------|--------|-------|
| Nos. | 0 | 1 |
| Width, Inches | 1 1/4 | 1 1/2 |
| Depth, Inches | 1 1/2 | 2 |
| Weight Per Foot, Lbs. | 5 1/2 | 1 1/2 |
| Per Foot | \$0.20 | .26 |
| Nos. | 2 | 4 |
| Width, Inches | 1 1/2 | 2 1/2 |
| Depth, Inches | 3 1/4 | 3 1/2 |
| Weight Per Foot, Lbs. | 2 | 3 1/2 |
| Per Foot | \$0.40 | .65 |

No. 0 furnished in lengths of 2 and 3 ft.; Nos. 1 and 2 in lengths of 10 ft.; No. 4 in lengths of 8 ft.
Open Stock.

TROLLEY TRACK BRACKETS

SINGLE WALL BRACKETS



| | | | |
|-------------|------------|-------|------|
| Nos. | B01 | B01R | B01L |
| Style | Center | Right | Left |
| Each | \$0.20 | .20 | .20 |
| Weight Each | 3/4 Pound. | | |

For No. 1 Track

| | | | |
|-------------|---------------|-------|------|
| Nos. | B11 | B11R | B11L |
| Style | Center | Right | Left |
| Each | \$0.30 | .30 | .30 |
| Weight Each | 1 1/2 Pounds. | | |

For No. 2 Track

| | | | |
|-------------|---------------|-------|------|
| Nos. | B21 | B21R | B21L |
| Style | Center | Right | Left |
| Each | \$0.50 | .50 | .50 |
| Weight Each | 2 1/2 Pounds. | | |

For No. 4 Track

| | | | |
|-------------|---------------|-------|------|
| Nos. | B41 | B41R | B41L |
| Style | Center | Right | Left |
| Each | \$1.60 | 1.60 | 1.60 |
| Weight Each | 7 3/4 Pounds. | | |

DOUBLE WALL BRACKETS

For No. 1 Track



| | | | |
|-------------|---------------|-------|-------|
| Nos. | B112 | B112R | B112L |
| Style | Center | Right | Left |
| Each | \$0.70 | .70 | .70 |
| Weight Each | 3 1/4 Pounds. | | |

For No. 2 Track

| | | | |
|-------------|---------------|-------|-------|
| Nos. | B212 | B212R | B212L |
| Style | Center | Right | Left |
| Each | \$1.20 | 1.20 | 1.20 |
| Weight Each | 5 1/2 Pounds. | | |

For No. 4 Track

| | | | |
|-------------|----------------|-------|-------|
| Nos. | B412 | B412R | B412L |
| Style | Center | Right | Left |
| Each | \$2.40 | 2.40 | 2.40 |
| Weight Each | 11 3/4 Pounds. | | |

TRIPLE WALL BRACKETS

For No. 1 Track



| | | | |
|-------------|---------------|-------|-------|
| Nos. | B113 | B113R | B113L |
| Style | Center | Right | Left |
| Each | \$1.10 | 1.10 | 1.10 |
| Weight Each | 5 1/4 Pounds. | | |

For No. 2 Track

| | | | |
|-------------|---------------|-------|-------|
| Nos. | B213 | B213R | B213L |
| Style | Center | Right | Left |
| Each | \$1.60 | 1.60 | 1.60 |
| Weight Each | 7 3/4 Pounds. | | |

For No. 4 Track

| | | | |
|--------------------------------------|--------|-------|-------|
| Nos. | B413 | B413R | B413L |
| Style | Center | Right | Left |
| Each | \$3.00 | 3.00 | 3.00 |
| Weight Each 14 $\frac{3}{4}$ Pounds. | | | |
| All Above Open Stock. | | | |

TROLLEY TRACK BRACKETS

SINGLE PARALLEL EAR BRACKETS

For No. 0 Track



| | | |
|-------------|------------|------|
| Nos. | B02 | B02E |
| Style | Center | End |
| Each | \$0.20 | .20 |
| Weight Each | 3/4 Pound. | |

For No. 1 Track

| | | |
|-------------|---------------|------|
| Nos. | B12 | B12E |
| Style | Center | End |
| Each | \$0.35 | .35 |
| Weight Each | 1 1/4 Pounds. | |

For No. 2 Track

| | | |
|-------------|---------------|------|
| Nos. | B22 | B22E |
| Style | Center | End |
| Each | \$0.50 | .50 |
| Weight Each | 2 1/2 Pounds. | |

For No. 4 Track

| | | |
|---------------------------|--------|------|
| FOR NO. 4 TRACK | | |
| Nos. | B42 | B42E |
| Style | Center | End |
| Each | \$1.35 | 1.35 |
| Weight Each 6 1/4 Pounds. | | |
| Open Stock. | | |

DOUBLE PARALLEL EAR BRACKETS

For No. 1 Track



| | | |
|-------------|---------------|-------|
| Nos. | B122 | B122E |
| Style | Center | End |
| Each | \$1.00 | 1.00 |
| Weight Each | 4 1/2 Pounds. | |

For No. 2 Track

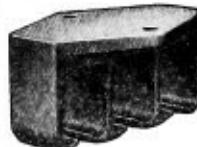
| | | |
|-------------|---------------|-------|
| Nos. | B222 | B222E |
| Style | Center | End |
| Each | \$1.25 | 1.25 |
| Weight Each | 5 1/2 Pounds. | |

For No. 4 Track

| | | |
|-------------------------|--------|-------|
| Nos. | B422 | B422E |
| Style | Center | End |
| Each | \$3.25 | 3.25 |
| Weight Each 15½ Pounds. | | |
| Open Stock. | | |

TRIPLE PARALLEL EAR BRACKETS

For No. 1 Track



| | | |
|-------------|---------------|-------|
| Nos. | B123 | B123E |
| Style | Center | End |
| Each | \$1.35 | 1.35 |
| Weight Each | 6 1/4 Pounds. | |

For No. 2 Track

| | | |
|-------------|------------|-------|
| Nos. | B223 | B223E |
| Style | Center | End |
| Each | \$1.50 | 1.50 |
| Weight Each | 7 1/4 Lbs. | |

For No. 4 Track

| | | |
|----------------------------|--------|-------|
| Nos. | B423 | B423E |
| Style | Center | End |
| Each | \$4.00 | 4.00 |
| Weight Each 19 1/2 Pounds. | | |
| Open Stock. | | |

SIDE EAR BRACKETS

For No. 0 Track



| | | |
|-------------|------------|------|
| Nos. | B03 | B03E |
| Style | Center | End |
| Each | \$0.20 | .20 |
| Weight Each | 3/4 Pound. | |

For No. 1 Track

| | | |
|-------------|---------------|------|
| Nos. | B13 | B13E |
| Style | Center | End |
| Each | \$0.35 | .35 |
| Weight Each | 1 1/4 Pounds. | |

For No. 2 Track

| | | |
|-------------|---------------|------|
| Nos. | B23 | B23E |
| Style | Center | End |
| Each | \$0.50 | .50 |
| Weight Each | 2 1/4 Pounds. | |

For No. 4 Track

| | | |
|----------------------------|--------|------|
| Nos. | B43 | B43E |
| Style | Center | End |
| Each | \$2.25 | 2.25 |
| Weight Each 10 3/4 Pounds. | | |
| Open Stock. | | |

TROLLEY TRACK BRACKETS

ADJUSTABLE WALL BRACKETS



These Brackets are used in connection with No. 444 Style Door Hangers and are so constructed that any bracket can be made an End Bracket by inserting an End Stop and Bolt.

They are furnished in 3 lengths of extension—5, 7½ and 11 in. Other lengths furnished at an additional price.

With 5 in. Extension

| | | |
|-------------------|--------|------|
| For Track, Nos. | 1 | 2 |
| Weight Each, Lbs. | 2¾ | 3¼ |
| Each | \$1.05 | 1.30 |

With 7½ in. Extension

| | | | |
|-------------------|--------|------|------|
| For Track, Nos. | 1 | 2 | 4 |
| Weight Each, Lbs. | 3 | 3½ | 9½ |
| Each | \$1.20 | 1.50 | 3.10 |

With 11 in. Extension

| | | | |
|-------------------|--------|------|------|
| For Track, Nos. | 1 | 2 | 4 |
| Weight Each, Lbs. | 4¼ | 4¾ | 11 |
| Each | \$1.30 | 1.75 | 3.40 |

Open Stock.

CENTER STOP BRACKETS



| | | | |
|-------------------|--------|-----|------|
| Nos. | B17 | B27 | B47 |
| For Track, | 1 | 2 | 4 |
| Weight Each, Lbs. | 2½ | 3 | 9¼ |
| Each | \$0.50 | .60 | 2.00 |

Open Stock.

FLOOR STOPS

Steel and Malleable Iron

No. 191—Adjustable for Doors 1¾ to 3½ in. Thick, Weight Each 2 Lbs. \$0.80

Each



Open Stock.

Cast Iron

No. 193 — Non-adjustable, Weight Each 3 Lbs. \$0.70

Each



Note—In ordering state Thickness of Door.
Open Stock.

FLOOR GUIDES

Heavy Sheet Steel

No. 195—Adjustable for Doors 1¾ to 3¾ in. Thick, Weight Each 3 Lbs. \$1.00

Each



Open Stock.

Heavy Sheet Steel

No. 192—Adjustable for Doors 1¾ to 3½ in. Thick, Weight Each 2½ Lbs. \$1.60

Each



Open Stock.

Note—The above Stops and Guides are furnished with flat head wood screws for attaching.

FLOOR GUIDES



Heavy Sheet Steel

No. 196—Adjustable for Doors 1¾ to 3¾ in. Thick, Weight Each 7½ Lbs. \$2.00

Each

Open Stock.

GUIDE ROLLS

Cast Iron, Dead Black Finish

No. 185—2 in. Wheel, ½ x 3¾ in. Lag Screw, Weight Each ¾ Lbs. \$0.16

Each

Open Stock.



Cast Iron, Dead Black Finish

No. 188—2 in. Wheel, ½ in. Lag Screw, Length to Inside of Roll End of Screw 4¾ in., Weight Each 1 Lb. \$0.20

Each

Open Stock.



Cast Iron Wheel, Dead Black Finish

No. 186—2 in. Wheel, Heavy Stamped Steel Frame, Adjustable for Doors 1½ to 2¾ in. Thick, Weight Each 1¼ Lbs. \$0.20

Each

Open Stock.



Cast Iron Wheel, Dead Black Finish

No. 187—2 in. Wheel, Heavy Steel Forged Frame, Adjustable for Doors 1½ to 2¾ in. Thick, with Flat Head Wood Screws, Weight Each 1 Lb. \$0.24

Each

Open Stock.



Cast Iron, Dead Black Finish

No. 189—2 in. Wheel, 1 in. from Floor to Center of Roll, ½ in. Lag Screw Screws into Floor 2 in., Weight Each 2½ Lbs. \$0.50

Each

Open Stock.



Cast Iron, Dead Black Finish

No. F14—2 in. Wheel, Heavy Cast Iron Stand, 5½ in. from Floor to Center of Roll, with ½ x 2½ in. Lag Screws, Weight Each 3 Lbs. \$0.65

Each

Open Stock.



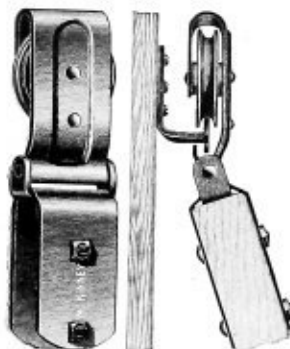
If Its Automobile Accessories

WE HAVE IT

Large Line Shown in Our 500 Page
Automobile Accessory Catalogue

BARN DOOR HANGERS

KING'S CHARM, ROLLER BEARING

Wrought Steel, Hinged Frame,
Japanned

Per Dozen Pairs
No. 1902—3 3/8 in. Diam-
eter Gray Iron Wheel.
Apron or Door Strap 5
in. Long, 2 1/2 in. Wide
and 3/8 in. Thick,
Punched for 1/2 in.
Bolts, for Doors 1 3/4 in.
Thick\$24.00

A special guard or lug on
the hanger, engaging on in-
side of track, prevents hang-
er from being thrown off the
track.

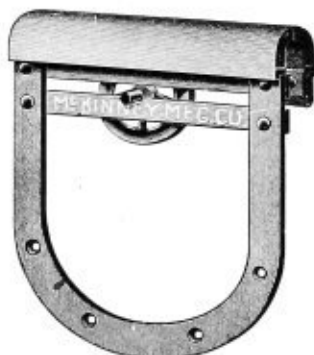
Weight Per Dozen Pairs 80 Pounds.
One Pair in a Box.

"NONE BETTER"Wrought Steel, Roller Bearing,
Japanned

Per Dozen Pairs
No. 1900-1—3 1/2 in. Gray Iron
Wheel, 11 in. Pendant, Weight
Per Dozen Pairs 65 Pounds. \$18.25
No. 1900-2—3 3/4 in. Gray Iron
Wheel, 12 in. Pendant, Weight
Per Dozen Pairs 93 Pounds. . 22.50

An exceptionally strong and easy
running hanger, made of heavy
wrought steel. The gray iron wheels
are equipped with steel roller bear-
ings. The wheels are covered as a
protection against weather conditions.
These hangers will operate on any
standard flat track of any length.

One Dozen Pairs in a Crate.

LOOSE AXLE

Wrought Steel, Japanned

| Nos. | 1901-5 | 1901-10 |
|----------------------------------|---------|---------|
| Length Run, Feet..... | 5 | 10 |
| Diameter Wheel, Inches..... | 3 | 4 1/4 |
| Length Pendant, Inches..... | 10 1/4 | 11 1/2 |
| Weight Per Dozen Pairs, Lbs..... | 200 | 274 |
| Per Dozen Pairs..... | \$28.00 | \$36.00 |

These hangers are made with a traveling wheel for 5
and 10 ft. runs. Wheels are gray iron and protected from
the weather by means of a hood or covering. Can be used
on any standard flat rail or track.

One-half Dozen Pairs in a Crate.

BARN DOOR TRACK

KING'S CHARM



Wrought Steel, Japanned

Per 100 Feet
No. 1912—1 1/4 in. Wide, 1/8 in. Thick, without Screws. \$11.00
In 4, 6, 8 and 10 Foot Lengths, Brackets Countersunk
for Screws.

Weight Per Hundred Feet 100 Pounds.
Six Pieces of Each Length in a Bundle.

"NONE BETTER"

Wrought Steel, Japanned

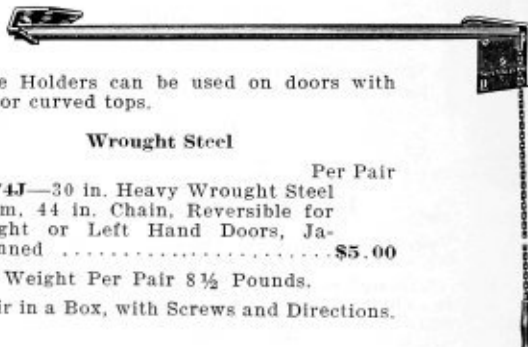
Per 100 Feet
No. 1910—1 1/4 in. Wide, 1/8 in. Thick, without Screws. \$15.50
In 4, 6, 8, 10 and 12 Foot Lengths.

Weight Per Hundred Feet 105 Pounds.

Four Foot Lengths 12 Pieces; Six and Eight Foot
Lengths 8 Pieces; Ten and Twelve Foot Lengths 6 Pieces
in a Bundle.

GARAGE DOOR HOLDERS

S-W



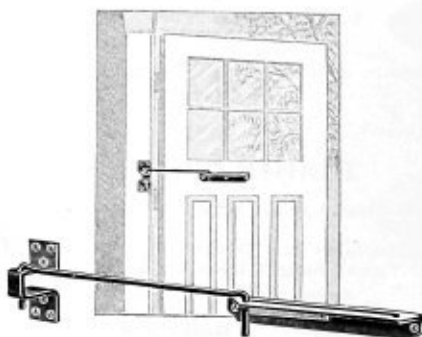
These Holders can be used on doors with
square or curved tops.

Wrought Steel

Per Pair
No. 1774J—30 in. Heavy Wrought Steel
Arm, 44 in. Chain, Reversible for
Right or Left Hand Doors, Ja-
panned\$5.00

Weight Per Pair 8 1/2 Pounds.

One Pair in a Box, with Screws and Directions.

STAY-PUT

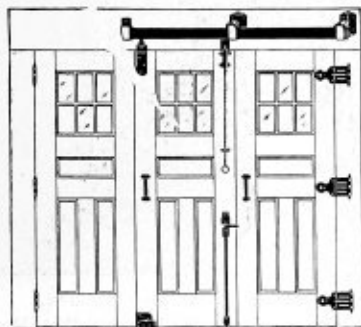
Wrought Steel

Per Pair
Stay-Put—For Right or Left Hand Doors.....\$3.00
Weight Per Pair 7 Pounds.

One Pair in a Carton, Twelve Cartons in a Case.

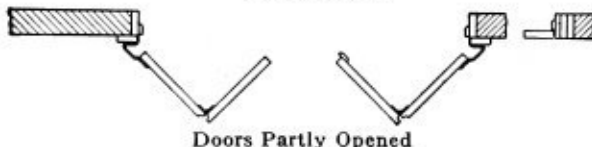
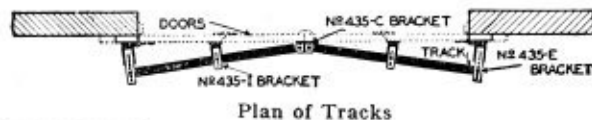
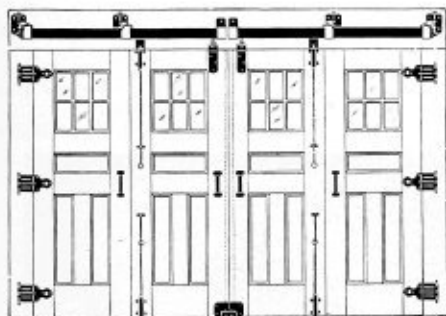
GARAGE DOOR SETS

Best Results Will Be Obtained by Using Doors Not Over 3 Feet in Width



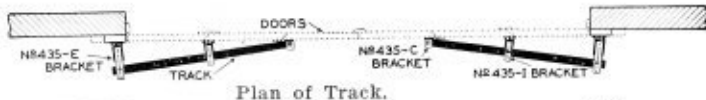
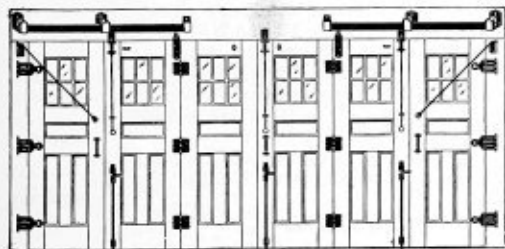
For Openings Up to 9 Feet Wide, Head Room Required 6 Inches

- No. 1435—3 Doors, Opening In..... Per Set
 Set consists of Complete Hardware as shown with Screws and Bolts and Instructions for Erecting. \$14.00
 Shipping Weight 50 Pounds.
 One Set in a Box, with No. 31 Track.



For Openings Up to 12 Feet Wide, Head Room Required 6 Inches

- No. 1435—4 Door, Two Track, Opening In..... Per Set
 Set consists of Complete Hardware as shown, with Screws and Bolts and Instructions for Erecting. \$21.00
 Shipping Weight 90 Pounds.
 One Set in a Box, with No. 31 Track.

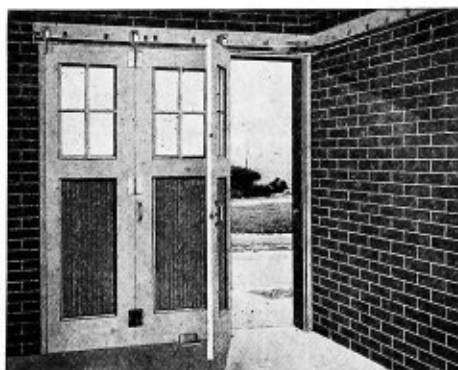


For Openings Up to 18 Feet Wide, Head Room Required 8 1/4 Inches

- No. 1435—6 Doors, Opening In..... Per Set
 Set consists of Complete Hardware as shown, with Screws and Bolts and Instructions for Erecting. \$28.00
 Shipping Weight 110 Pounds.
 One Set in a Box, with No. 31 Track.

GARAGE DOOR SETS

McKINNEY "AROUND THE CORNER"



Interior View, Service Door Open.

Complete Hardware for Three Doors, for Openings 6 to 10 Feet Wide

The three doors are hinged together as a unit and are equipped with swivel hangers to roll on a continuous overhead track around one corner and along the adjoining side-wall resting flat against the wall on the inside when open.

Black Japanned

Per Set

No. 9023—Complete as Enumerated Below in a Neatly Labeled Wooden Box, Weight Per Set 55 Lbs. \$13.00

Contents of Set

- 1 Curved Section of Track.
- 8 28-in. Sections of Straight Track.
- 2 Swivel Hangers for Special Hinges.
- 1 Swivel Hanger with Door Bracket.
- 2 Pairs Hinges, Tight Pin.
- 1 Pair Special Hinges for Hangers.
- 4 Door Handles or Pulls.
- 1 Floor Guide (2 Pieces).

All Screws and Bolts to Install.

Complete Directions and Drawings for Applications.

McKINNEY "SLIDING-FOLDING"



Interior View, Doors Partly Closed.

Complete Hardware for Three Sliding-Folding Doors, for Openings 6 to 9 ft. Wide.

Two doors are hinged together and to one of the side jambs, to slide and fold inside out of the way. The third or service door swings independently from the opposite side.

Black Japanned

Per Set

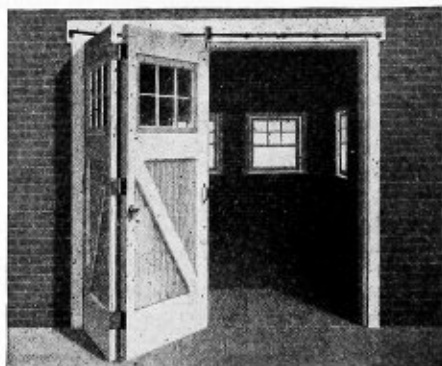
No. 9010—Complete as Enumerated Below on a Neatly Labeled Wooden Box, Weight Per Set 45 Lbs. \$15.00

Contents of Set

- | | |
|---|----------------------------------|
| 1 Swivel Trolley Hanger. | 4½ Pairs Tight Pin Butts, |
| 1 Adjustable End Bracket. | 4x4 in. |
| 2 Adjustable Intermediate Brackets. | 1 Foot Bolt, 6 in. |
| 1 Stationary End Bracket. | 1 Chain Bolt, 6 in. |
| 3 Section Trolley Track (7 ft. in All). | 2 Door Handles or Pulls. |
| | All Screws and Bolts to Install. |

Complete Directions and Drawings for Application.

McKINNEY SLIDING-FOLDING



Exterior View, Doors Partly Open.

Complete Hardware for Two Sliding-Folding Doors, for Openings 7 to 10 ft. Wide

The two doors are hinged together and to one of the side jambs to slide and fold outside of the garage. Two bolts on the inside operating as a unit hold the doors securely closed at top and bottom. These bolts are thrown simultaneously by means of a special handle or lever on the outside of one of the doors.

Black Japanned

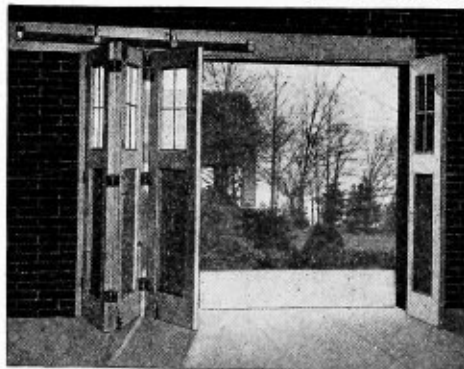
Per Set

No. 9017—Complete as Enumerated Below in a Neatly Labeled Wooden Box, Weight Per Set 45 Lbs. \$12.00

Contents of Set

- | | |
|---|----------------------------------|
| 1 Door Hanger Complete. | 3 Pairs Tight Pin Butts, |
| 1 Angle Section of Track. | 5x5 in. |
| 4 Straight Sections of Track (28 in. Each). | 1 Cremone Bolt Complete. |
| | 1 Door Handle or Pull. |
| | All Screws and Bolts to Install. |

Complete Directions and Drawings for Application.



Interior View, Doors Partly Open.

Complete Hardware for Four Sliding-Folding Doors, for Openings 9 to 12 ft. Wide

Three doors are hinged together and to one of the side jambs to slide and fold inside of the garage. The fourth or service door swings independently from the opposite side.

Black Japanned

Per Set

No. 9015—Complete as Enumerated Below in a Neatly Labeled Wooden Box, Weight Per Set 52 Lbs. \$18.00

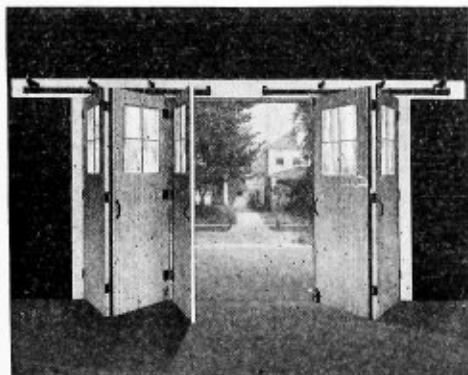
Contents of Set

- | | |
|---|----------------------------------|
| 1 Swivel Trolley Hanger. | ft. in All. |
| 1 Adjustable End Bracket for Track. | 4½ Pairs Tight Pin Butts, |
| 2 Adjustable Intermediate Brackets for Track. | 4x4 in. |
| 1 Stationary End Bracket for Track. | 1½ Pairs Tight Pin Offset Butts. |
| 3 Section Trolley Track (7 ft. in All). | 2 Foot Bolts, 6 in. |
| | 2 Chain Bolts, 6 in. |
| | 2 Door Handles or Pulls. |
| | All Screws and Bolts to Install. |

Complete Directions and Drawings for Application.

GARAGE DOOR SETS

McKINNEY SLIDING-FOLDING



Interior View, Door Partly Open.

Complete Hardware for Five Sliding-Folding Doors, for Openings 10 to 15 ft. Wide

Three doors are hinged together and to one of the side jambs to slide and fold inside the garage, while the other two doors are hinged together and to the opposite side jamb, both sets of doors meeting in the center when closed. The center door serves as the passage door.

Black Japanned Per Set

No. 9018—Complete as Enumerated Below, in Neatly Labeled Wooden Box, Weight Per Set 82 Lbs. \$30.00

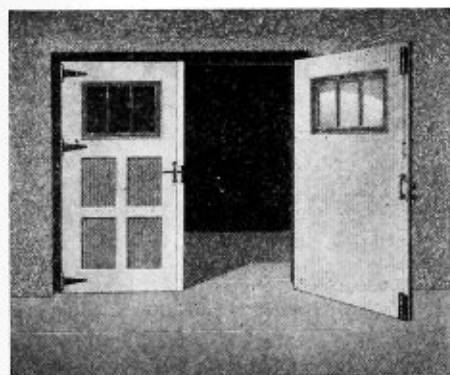
Contents of Set

- 2 Swivel Trolley Hangers.
- 2 Adjustable End Wall Brackets, 10 in.
- 2 Adjustable Intermediate Wall Brackets, 7 1/2 in.
- 2 Adjustable Intermediate Wall Brackets, 4 1/2 in.
- 2 Stationary Wall Brackets.
- 6 Sections Trolley Track, (28 in. each).
- 6 Pairs Tight Pin Butts, 4x4 in.
- 1 1/2 Pairs Tight Pin Offset Butts.
- 2 Foot Bolts.
- 2 Chain Bolts.
- 4 Door Handles or Pulls.

All Screws and Bolts to Install.

Complete Directions and Drawings for Application.

FOR SWINGING DOORS



The doors are held securely closed by means of the foot and chain bolts which are applied to the bottom and top of one of the doors. The wrought steel thumb latch includes two padlock eyes for use in locking the entrance on the outside.

Black Japanned Per Set

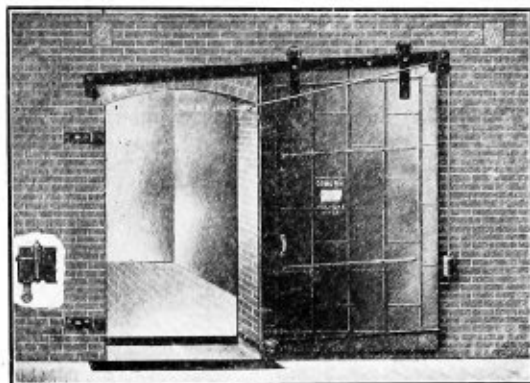
No. 9032—Complete as Enumerated Below, in Neatly Labeled Carton, Weight Per Set 19 Lbs. \$8.50

Contents of Set

- 3 Pairs Extra Heavy Reversed Pad T Hinges.
 - 1 Foot Bolt, 6 in.
 - 1 Chain Bolt, 6 in.
 - 1 Duogrip Thumb Latch.
 - 1 Door Handle or Pull.
- All Screws to Apply.

COBURN FIRE DOORS

PHILADELPHIA STANDARD, INCLINE SLIDE



Complete with All Hardware

With Two Hangers

| | | | | |
|-----------------------|---------|-------|-------|-------|
| For Opening, Feet... | 2 1/2 | 3 | 3 1/2 | 4 |
| Weight Per Set, Lbs.. | 168 | 179 | 186 | 193 |
| Per Set | \$19.00 | 19.50 | 20.00 | 20.50 |

| | | | | |
|-----------------------|---------|-------|-------|-------|
| For Opening, Feet... | 4 1/2 | 5 | 5 1/2 | 6 |
| Weight Per Set, Lbs.. | 201 | 212 | 224 | 231 |
| Per Set | \$21.00 | 21.65 | 22.30 | 22.80 |

With Three Hangers

| | | | | |
|-----------------------|---------|-------|-------|-------|
| For Opening, Feet... | 6 1/2 | 7 | 7 1/2 | 8 |
| Weight Per Set, Lbs.. | 255 | 264 | 273 | 292 |
| Per Set | \$25.56 | 26.35 | 27.05 | 28.25 |

| | | | | |
|-----------------------|---------|-------|-------|-------|
| For Opening, Feet... | 8 1/2 | 9 | 9 1/2 | 10 |
| Weight Per Set, Lbs.. | 302 | 316 | 326 | 338 |
| Per Set | \$28.95 | 29.90 | 30.60 | 31.30 |

Note—In ordering, give size of wall opening (not door), thickness of door, and state if doors are to be used on one or both sides of wall.

FIRE DOORS AND SHUTTERS

Without Hardware

Per Square Foot

| | |
|---|--------|
| Three-Ply Labeled Doors—2 1/2 in. Thick, 14x20 in. | |
| IC 113 Pound Plates, Double Lock Joints, | |
| Weight Per Square Foot 7 1/4 Lbs | \$0.75 |
| Three-Ply Not Labeled Doors—2 1/2 in. Thick, 14x20 in. | |
| IC 108 Pound Plates, Single Lock Joints, | |
| Weight Per Square Foot 6 1/2 Lbs..... | .60 |
| Two-Ply Not Labeled Doors—1 3/4 in. Thick, 14x20 in. | |
| IC 108 Pound Plates, Single Lock Joints, Weight | |
| Per Square Foot 5 Lbs..... | .50 |
| Two-Ply Labeled Shutters—1 3/4 in. Thick, 14x20 in. | |
| IC 113 Pound Plates, Double Lock Joints, | |
| Weight Per Square Foot 5 1/2 Lbs..... | .65 |
| Two-Ply Not Labeled Shutters—1 3/4 in. Thick, 14x20 in. | |
| IC 108 Pound Plates, Single Lock Joints, | |
| Weight Per Square 5 Lbs..... | .50 |

We are prepared to furnish fixtures for fire doors adapted to any requirements and will furnish quotations on receipt of specifications.

FUSIBLE LINKS



For Fire Doors

Each

No. 96—Used on Fire Door Fixtures, and All Doors and Windows which are Constructed to Close Automatically by Heat, Link Melts at 160 Degrees Fahrenheit \$0.40

Open Stock.

STRAP HINGES

LIGHT



No. 900—Wrought Steel, Bright, without Screws

| Length Each Leaf, In. | Width Joint, In. | Size of Screws | No. of Screw Holes | Dz. Pairs in. Barrel | Wt. Dz. Pairs, Lbs. | Per Dozen Pairs |
|-----------------------|------------------|----------------|--------------------|----------------------|---------------------|-----------------|
| 3 | 1 1/8 | 3/4 x 6 | 6 | 225 | 2 1/2 | \$2.00 |
| 4 | 1 1/8 | 3/4 x 7 | 6 | 150 | 4 | 2.50 |
| 5 | 1 1/8 | 1 x 8 | 8 | 100 | 6 1/4 | 2.95 |
| 6 | 1 1/8 | 1 x 9 | 8 | 80 | 9 | 4.20 |
| 8 | 1 1/8 | 1 x 10 | 8 | 48 | 14 1/2 | 5.75 |
| 10 | 2 1/8 | 1 1/4 x 10 | 8 | 32 | 20 | 9.85 |
| 12 | 2 3/8 | 1 1/4 x 12 | 8 | 16 | 33 | 15.75 |

Open Stock.

No. SC900—Wrought Steel, Bright, One Pair in a Box, with Screws

| Length Each Leaf, Inches | 3 | 4 | 5 | 6 |
|--------------------------|---------|-------|-------|-------|
| Weight Per Pair, Lbs. | 1 1/4 | 2 1/8 | 3 1/2 | 4 1/2 |
| Per 100 Pairs | \$25.25 | 29.50 | 36.15 | 47.65 |

HEAVY



No. 902—Wrought Steel, Bright, without Screws

| Length Each Leaf, In. | Width Joint, In. | Size of Screws | No. of Screw Holes | Dz. Pairs in. Barrel | Wt. Dz. Pairs, Lbs. | Per Dozen Pairs |
|-----------------------|------------------|----------------|--------------------|----------------------|---------------------|-----------------|
| 4 | 1 1/8 | 1 x 9 | 6 | 100 | 6 | \$2.75 |
| 5 | 1 1/8 | 1 x 10 | 8 | 70 | 10 | 3.80 |
| 6 | 2 1/8 | 1 1/4 x 11 | 8 | 38 | 19 | 4.65 |
| 8 | 2 3/8 | 1 1/4 x 12 | 8 | 20 | 34 | 7.75 |
| 10 | 3 1/8 | 1 3/4 x 14 | 8 | 12 1/2 | 51 | 11.90 |
| 12 | 4 1/8 | 1 3/4 x 16 | 10 | 8 1/2 | 82 | 18.25 |
| 14 | 4 3/8 | 1 3/4 x 16 | 10 | 6 | 91 | 23.60 |

Open Stock.

No. SC902—Wrought Steel Bright, One Pair in a Box, with Screws

| Length Each Leaf, In. | 4 | 5 | 6 | 8 | 10 |
|-----------------------|---------|-------|-------|-------|--------|
| Weight Per Pair, Lbs. | 7/10 | 1 | 1 1/4 | 3 | 4 1/2 |
| Per 100 Pairs | \$37.50 | 46.80 | 57.65 | 88.15 | 126.65 |

HEAVY CORRUGATED



Wrought Steel, without Screws

| Length Each Leaf, In. | Width Joint, In. | Wt. Dz. Pairs, Lbs. | Per Dozen Pairs | | |
|-----------------------|------------------|---------------------|----------------------|---------------------|-----------------------------------|
| | | | No. 935 Bright Steel | No. 1305 Galvanized | No. 1305 1/2 Galvanized Brass Pin |
| 4 | 1 1/8 | 5 1/4 | \$3.05 | 3.80 | 4.85 |
| 5 | 1 1/8 | 8 1/4 | 4.20 | 5.55 | 7.25 |
| 6 | 2 1/8 | 15 | 5.10 | 8.10 | 11.05 |
| 8 | 3 | 25 | 8.55 | 13.95 | 18.45 |
| 10 | 3 3/8 | 37 1/2 | 13.10 | 21.15 | 28.50 |
| 12 | 4 | 60 | 20.10 | 33.20 | 42.40 |

Open Stock.

T HINGES

LIGHT



No. 904—Wrought Steel, Bright, without Screws

| Length Strap, In. | Width Joint, In. | Length Joint, In. | Size of Screws | No. of Screw Holes | Wt. Dz. Pairs, Lbs. | Per Dozen Pairs |
|-------------------|------------------|-------------------|----------------|--------------------|---------------------|-----------------|
| 3 | 1 1/8 | 2 3/8 | 3/4 x 7 | 6 | 2 3/4 | \$2.15 |
| 4 | 1 1/8 | 2 5/8 | 3/4 x 7 | 6 | 3 1/2 | 2.65 |
| 5 | 1 1/8 | 3 | 1 x 8 | 7 | 4 3/4 | 3.25 |
| 6 | 1 1/8 | 3 1/2 | 1 x 8 | 7 | 6 3/4 | 3.90 |
| 8 | 1 1/8 | 4 | 1 x 9 | 7 | 9 1/2 | 5.15 |
| 10 | 1 3/8 | 4 1/2 | 1 1/4 x 10 | 8 | 13 1/2 | 7.80 |
| 12 | 2 1/8 | 4 3/4 | 1 1/4 x 11 | 8 | 20 1/2 | 10.65 |

Open Stock.

No. SC904—Wrought Steel, Bright, One Pair in a Box, with Screws

| Length of Strap, Inches | 3 | 4 | 5 | 6 |
|-------------------------|---------|-------|-------|-------|
| Weight Per Pair, Lbs. | 1 1/2 | 2 1/8 | 3 1/2 | 4 1/2 |
| Per 100 Pairs | \$25.15 | 30.50 | 34.65 | 45.90 |

HEAVY



No. 906—Wrought Steel, Bright, without Screws

| Length Strap, In. | Width Joint, In. | Length Joint, In. | Size of Screws | No. of Screw Holes | Wt. Dz. Pairs, Lbs. | Per Dozen Pairs |
|-------------------|------------------|-------------------|----------------|--------------------|---------------------|-----------------|
| 4 | 1 1/8 | 2 3/8 | 1 x 8 | 6 | 4 3/4 | \$3.10 |
| 5 | 1 1/8 | 3 1/4 | 1 x 8 | 7 | 6 3/4 | 3.65 |
| 6 | 1 1/8 | 3 1/2 | 1 x 9 | 7 | 8 3/4 | 4.30 |
| 8 | 1 3/8 | 4 | 1 x 10 | 7 | 12 | 5.70 |
| 10 | 2 | 4 1/2 | 1 1/4 x 11 | 8 | 19 | 8.65 |
| 12 | 2 1/8 | 5 1/2 | 1 1/4 x 12 | 9 | 31 | 12.60 |
| 14 | 3 1/8 | 6 | 1 1/2 x 13 | 11 | 45 | 20.05 |
| 16 | 3 3/8 | 6 | 1 3/4 x 14 | 11 | 50 | 27.75 |

Open Stock.

EXTRA HEAVY



No. 908—Wrought Steel, Bright, without Screws

| Length Strap, In. | Width Joint, In. | Length Joint, In. | Size of Screws | No. of Screw Holes | Wt. Dz. Pairs, Lbs. | Per Dozen Pairs |
|-------------------|------------------|-------------------|----------------|--------------------|---------------------|-----------------|
| 4 | 1 1/8 | 3 1/2 | 1 x 10 | 8 | 7 1/2 | \$4.25 |
| 5 | 2 1/8 | 4 | 1 x 10 | 8 | 13 1/2 | 4.50 |
| 6 | 2 3/8 | 4 1/2 | 1 1/4 x 11 | 8 | 21 | 5.65 |
| 8 | 3 | 5 1/2 | 1 1/2 x 13 | 9 | 36 | 9.65 |
| 10 | 3 1/2 | 7 | 1 3/4 x 14 | 9 | 50 | 13.75 |
| 12 | 3 3/8 | 7 3/4 | 1 3/4 x 16 | 10 | 78 | 20.00 |
| 14 | 3 3/8 | 7 3/4 | 1 3/4 x 17 | 10 | 82 | 24.00 |
| 16 | 3 3/8 | 7 3/4 | 1 3/4 x 17 | 11 | 93 | 30.00 |

Open Stock.

No. SC908—Wrought Steel, Bright, One Pair in a Box, with Screws

| Length Strap, In. | 5 | 6 | 8 | 10 | 12 |
|-------------------|---------|-------|--------|--------|--------|
| Wt. Pair, Lbs. | 1 1/2 | 2 | 3 1/2 | 5 | 7 1/2 |
| Per 100 Pairs | \$54.25 | 67.15 | 107.40 | 145.90 | 215.65 |

T HINGES

EXTRA HEAVY, CORRUGATED

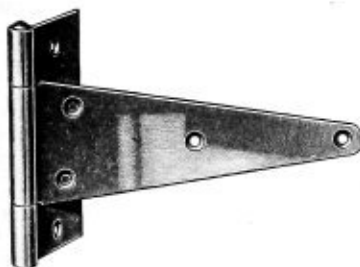


Wrought Steel, without Screws

| Length Strap, In. | Width Strap at Joint, In. | Length Joint, In. | Wt. Doz. Pairs, Lbs. | Per Dozen Pairs | | |
|-------------------------|------------------------------------|-------------------------|----------------------------|----------------------------|---------------------|---|
| | | | | No. 937 Bright Steel | No. 1307 Galvan. | No. 1307 1/4 Galvan. Brass Pin |
| 4 | 1 1/2 | 3 1/2 | 6 1/4 | \$ 4.70 | \$ 5.65 | \$ 8.45 |
| 5 | 1 3/4 | 4 | 10 1/2 | 5.00 | 6.95 | 11.60 |
| 6 | 2 1/4 | 4 1/2 | 17 | 6.20 | 9.45 | 16.95 |
| 8 | 2 3/4 | 5 1/2 | 27 | 10.60 | 16.15 | 27.40 |
| 10 | 3 1/4 | 7 | 40 | 15.15 | 22.80 | 38.20 |
| 12 | 3 1/2 | 7 | 50 | 22.00 | 59.10 | 56.25 |

Open Stock.

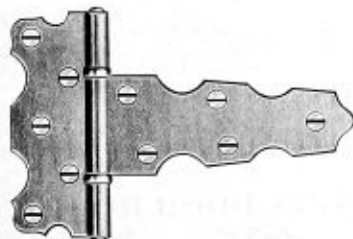
EXTRA HEAVY, REVERSED PAD



No. SC963J—Wrought Steel, Japanned, One Pair in a Box, with Screws

| Length Strap, In. | Width Strap at Joint, In. | Length Joint, In. | Size of Screw | No. of Screw Holes | Weight Pair Lbs. | Per 100 Pairs |
|-------------------------|------------------------------------|-------------------------|---------------------|--------------------------|------------------------|---------------------|
| 8 | 3 | 5 1/2 | 1 1/2 x 13 | 9 | 3 1/2 | \$111.00 |
| 10 | 3 1/2 | 7 | 1 3/4 x 14 | 9 | 5 | 156.75 |
| 12 | 3 3/4 | 7 3/4 | 1 3/4 x 16 | 10 | 7 1/2 | 224.25 |
| 14 | 3 3/4 | 7 3/4 | 1 3/4 x 17 | 10 | 7 3/4 | 258.00 |
| 16 | 3 3/4 | 7 3/4 | 1 3/4 x 17 | 11 | 8 3/4 | 296.50 |

HEAVY, BALL BEARING



No. 1340—Wrought Steel, Galvanized, Brass Pin, One Pair in a Package, with Screws

| Length Strap, In. | Width Strap at Joint, In. | Length Joint, In. | Width Pad, In. | Weight Pair, Lbs. | Per Pair |
|-------------------------|------------------------------------|-------------------------|----------------------|-------------------------|-------------|
| 10 | 3 | 7 | 3 | 4 1/2 | \$6.20 |

GARAGE DOOR HINGES

BALL BEARING, FULL SURFACE



No. 1456J—Wrought Steel, Japanned

| Length Strap, In. | Width Strap, In. | Length Joint, In. | Width Pad, In. | Weight Pair, Lbs. | Per Pair |
|-------------------------|------------------------|-------------------------|----------------------|-------------------------|-------------|
| 12 | 3 | 7 | 3 | 6 1/4 | \$ 8.00 |
| 18 | 3 | 7 | 3 | 7 3/4 | 8.75 |
| 24 | 4 | 8 | 3 1/4 | 14 | 10.50 |

These hinges permit the door to be opened entirely clear of the entrance. In applying no mortising is necessary as the pad is set on the door casing and the strap on the surface of the door.

All sizes are corrugated near the joint and equipped with ball bearing washers. Combination holes permit the use of either screws or carriage bolts in applying.

One Pair in a Package, with Screws.

BALL BEARING, HALF SURFACE



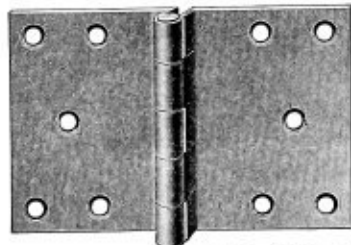
No. 1457J1—Wrought Steel, Japanned Dead Black With 1 1/8 in. Offset.

| Length Strap, In. | Width Strap, In. | Length Joint, In. | Width Pad, In. | Weight Pair, Lbs. | Per Pair |
|-------------------------|------------------------|-------------------------|----------------------|-------------------------|-------------|
| 10 | 3 | 7 | 2 1/4 | 6 | \$5.75 |
| 24 | 3 | 7 | 2 1/4 | 9 | 8.00 |

In applying these hinges the casing only is mortised and the ornamental strap is applied to the surface of the door.

One in a Package, with Screws.

FULL SURFACE BUTTS



Wrought Steel, with Offset

No. 1848—Japanned, 4 1/2 x 7 in., 1 in. Offset, 2 in. Throw, 10 Screw Holes, No. 13 Screws....\$4.80
Weight Per Pair 3 1/2 Pounds.

Three Pairs in a Box, with Screws.

SCREW HOOK AND STRAP HINGES



No. 821—Wrought Steel

| Length Strap, In. | Size Strap, In. | Size Screw, Hook, In. | No. of Bolt Holes | Dia. Bolt Holes, In. | Wt. Per 100 Pcs. Lbs. | Per Pair |
|-------------------------|-----------------------|-----------------------------|-------------------------|----------------------------|-----------------------------|-------------|
| 6 | 1 1/4 x 3/8 | 1/2 x 4 3/4 | 2 | 1/8 & 3/8 | 197 | \$0.42 |
| 8 | 1 1/4 x 3/8 | 1/2 x 4 3/4 | 2 | 1/8 & 3/8 | 222 | .47 |
| 10 | 1 1/2 x 1/2 | 5/8 x 6 1/4 | 3 | 1/8 & 3/8 | 320 | .64 |
| 12 | 1 1/2 x 1/2 | 5/8 x 6 1/4 | 3 | 1/8 | 388 | .75 |
| 14 | 1 1/2 x 1/2 | 3/4 x 6 3/4 | 3 | 1/8 | 602 | 1.08 |
| 16 | 1 1/2 x 1/2 | 3/4 x 6 3/4 | 3 | 1/8 | 659 | 1.10 |
| 18 | 1 3/4 x 1/2 | 3/4 x 6 3/4 | 3 | 1/8 | 793 | 1.25 |
| 20 | 1 3/4 x 1/2 | 3/4 x 8 1/2 | 4 | 1/8 | 855 | 1.40 |
| 22 | 1 3/4 x 1/2 | 3/4 x 8 1/2 | 4 | 1/8 | 1025 | 1.62 |
| 24 | 2 x 1/2 | 3/4 x 8 1/2 | 4 | 1/8 | 1132 | 2.00 |
| 30 | 2 1/2 x 1/2 | 1 x 9 | 4 | 1/2 | 1302 | 2.25 |
| 36 | 2 1/2 x 1/2 | 1 x 9 | 4 | 1/2 | 1533 | 2.50 |

Open Stock.

HINGE HASPS



No. 912—Wrought Steel, Bright, without Screws

| | | | | | | |
|-------------------|--------|-------|-------|-------|--------|-------|
| Length Strap, In. | 3 | 4 1/2 | 6 | 8 | 10 | 12 |
| Width Joint, In. | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 2 1/2 | 2 3/4 |
| Size Screws, Nos. | 6 | 6 | 9 | 10 | 10 | 12 |
| Screw Holes | 7 | 7 | 8 | 8 | 8 | 8 |
| Wt. Dozen, Lbs. | 2 | 2 3/4 | 5 | 7 3/4 | 12 1/2 | 19 |
| Per Dozen | \$2.10 | 2.45 | 3.25 | 4.95 | 7.95 | 13.75 |

Open Stock.

No. SC912—Wrought Steel, Bright, One Pair in a Box, with Screws

| | | | | | | |
|------------------|---------|-------|-------|-------|-------|--------|
| Lgth. Strap, In. | 3 | 4 1/2 | 6 | 8 | 10 | 12 |
| Per 100 | \$26.60 | 27.25 | 35.10 | 50.00 | 77.90 | 126.50 |

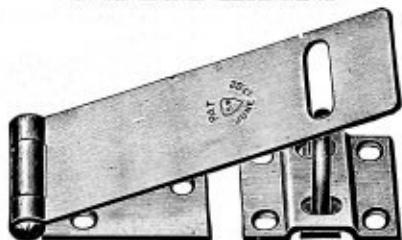


Extra Heavy, Wrought Steel, Bright

| | |
|---|-----------|
| No. 941—Length 7 1/2 in., Width 1 3/4 in., Weight | Per Dozen |
| Per Dozen 12 Lbs. | \$ 8.65 |
| No. 941C—Same as Above, Brass Plated | 10.90 |

One-half Dozen in a Box.

SAFETY HASPS



No. 915—Wrought Steel, Bright

| | | | |
|-------------------------|--------|-------|-------|
| Length of Strap, Inches | 3 1/2 | 4 1/2 | 6 |
| Width at Joint, Inches | 1 1/2 | 1 1/2 | 1 3/4 |
| Size of Screws, Inches | 7 | 7 | 9 |
| Weight Per Dozen, Lbs. | 3 3/4 | 4 3/4 | 9 1/2 |
| Per Dozen | \$3.15 | 4.20 | 5.95 |

One Dozen in a Box.

No. 915C—Wrought Steel, Brass Plated

| | | | |
|-------------------------|--------|-------|-------|
| Length of Strap, Inches | 3 | 4 1/2 | 6 |
| Per Dozen | \$6.15 | 7.70 | 10.50 |

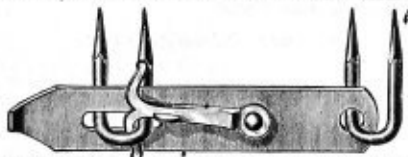
6 in., One-half Dozen; Others, One Dozen in a Box, with Screws.

Extra Heavy, Wrought Steel, Bright

| | |
|---|-----------|
| No. 915 1/2—Length of Strap 7 in., Width at Joint | Per Dozen |
| 2 1/2 in., Weight Per Dozen 19 Lbs. | \$12.25 |

One-quarter Dozen in a Box.

HASPS, HOOKS AND STAPLES



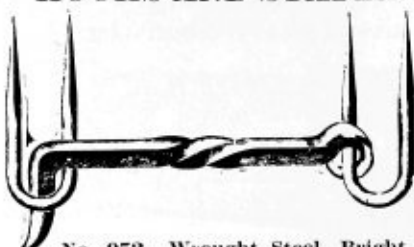
No. 982—Wrought Steel, Bright, with Double Hook.

| | | | |
|---------------------------|--------|-------|-------|
| Length, Inches | 5 | 6 | 7 |
| Length of Staples, Inches | 2 | 2 1/4 | 2 1/2 |
| Weight Per Dozen, Lbs. | 1 3/4 | 3 | 4 |
| Per Dozen | \$1.20 | 1.40 | 1.60 |

| | | |
|---------------------------|--------|-------|
| Length, Inches | 8 | 10 |
| Length of Staples, Inches | 2 1/2 | 2 3/4 |
| Weight Per Dozen, Lbs. | 4 1/2 | 7 |
| Per Dozen | \$1.80 | 2.50 |

One Dozen in a Box, with Staples.

HOOKS AND STAPLES



No. 972—Wrought Steel, Bright

| | | | | | |
|--------------------|---------|-------|-------|-------|-------|
| Length, Inches | 3 | 4 | 5 | 6 | 8 |
| Lgth. Staples, In. | 1 1/2 | 2 | 2 1/4 | 2 1/2 | 2 3/4 |
| Wt. Gross, Lbs. | 12 | 17 | 26 | 30 | 52 |
| Per Gross | \$10.00 | 12.00 | 15.00 | 18.00 | 30.00 |

One-quarter Gross in a Box, with Staples.



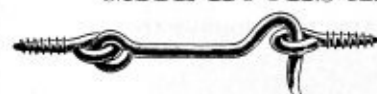
SAFETY GATE HOOKS

No. 100—Malleable Hook, Steel Staples, Tinned

| | | | |
|----------------------|---------|-------|-------|
| Length, Inches | 4 | 5 | 6 |
| Weight Per Box, Lbs. | 4 | 4 1/2 | 5 |
| Per 100 | \$22.00 | 25.00 | 28.00 |

Twenty-five in a Box, with Staples.

GATE HOOKS AND EYES



No. 40—Bright Steel Wire

| | | | | | |
|-----------------|--------|-------|-------|-------|-------|
| Length, Inches | 1 | 1 1/2 | 2 | 2 1/2 | 3 |
| Size Wire, Nos. | 12 | 10 | 9 | 8 | 7 |
| Wt. Gross, Lbs. | 1 1/2 | 3 | 4 1/2 | 5 1/2 | 8 1/2 |
| Per Gross | \$6.50 | 6.50 | 8.00 | 10.00 | 12.00 |

| | | | | |
|--------------------|---------|--------|--------|--------|
| Length, Inches | 3 1/2 | 4 | 4 1/2 | 5 |
| Size Wire, Nos. | 6 | 6 | 5 | 5 |
| Weight Gross, Lbs. | 11 1/2 | 12 1/2 | 15 1/2 | 16 1/2 |
| Per Gross | \$14.50 | 17.00 | 20.00 | 24.00 |

| | | | | |
|--------------------|---------|-------|--------|--------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Size Wire, Nos. | 4 | 4 | 4 | 4 |
| Weight Gross, Lbs. | 21 1/2 | 25 | 27 1/2 | 30 1/2 |
| Per Gross | \$30.00 | 36.00 | 42.00 | 48.00 |

No. 1040—Brass Wire

| | | | | | |
|-----------------|---------|-------|-------|-------|-------|
| Length, Inches | 1 | 1 1/2 | 2 | 2 1/2 | 3 |
| Wt. Gross, Lbs. | 1 3/4 | 3 1/4 | 4 3/4 | 6 1/2 | 9 1/2 |
| Per Gross | \$24.00 | 24.00 | 30.00 | 36.00 | 46.00 |

| | | | | |
|--------------------|---------|-------|--------|--------|
| Length, Inches | 3 1/2 | 4 | 4 1/2 | 5 |
| Weight Gross, Lbs. | 12 1/2 | 13 | 16 3/4 | 17 1/2 |
| Per Gross | \$58.00 | 64.00 | 76.00 | 82.00 |

| | | | | |
|--------------------|----------|--------|--------|--------|
| Length, Inches | 6 | 8 | 10 | 12 |
| Weight Gross, Lbs. | 22 1/2 | 26 1/2 | 30 | 33 1/2 |
| Per Gross | \$110.00 | 130.00 | 150.00 | 170.00 |

1 and 1 1/2 in., One Gross; 2 to 4 in., One-half Gross; 4 1/2 to 6 in., One-quarter Gross; Larger, One-sixth Gross in a Box.

HOOKS AND EYES

No. 60—Heavy Brass
Either Right or Left Hand.

| | | | | | |
|----------------------|--------|-------|-------|-------|-------|
| Length, Inches | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 |
| Weight Per Box, Lbs. | 1 1/2 | 3 1/4 | 1 | 1 1/2 | 2 1/4 |
| Per 100 | \$3.35 | 3.60 | 3.90 | 5.30 | 7.30 |

One Hundred in a Box.

CABIN DOOR HOOKS



No. 773—Cast Brass, Polished

1 1/2 x 1 1/8 in. Wrought Brass Plates.

| | | | | | | |
|-----------------|--------|-------|-------|-------|-------|-------|
| Length, Inches | 2 | 2 1/2 | 3 | 4 | 5 | 6 |
| Wt. Dozen, Lbs. | 1 3/4 | 1 3/4 | 2 1/4 | 2 1/2 | 3 | 4 3/4 |
| Per Dozen | \$7.20 | 7.50 | 8.10 | 9.00 | 10.20 | 11.40 |

One Dozen in a Box, with Screws.

GATE HINGES AND LATCHES



Upper Hinge.

Latch.



Lower Hinge.

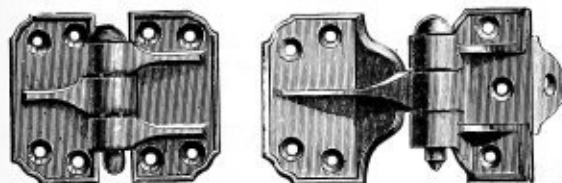
For Gates to Swing Both Ways

- No. 2C—Set, Hinges and Latch Complete, Weight Per Dozen Sets 38 Lbs. \$8.00
- No. 2H—Hinges Only, Weight Per Dozen Pairs 29 Lbs. \$6.00
- No. 2L—Latches Only, Weight Per Dozen 11 Lbs. \$2.00

These hinges are strong and require no mortising. The pivots of both the upper and lower hinge are capped to keep out rain or snow. They cannot be disconnected in working, and the gate is held wide open when desired by the construction of the upper hinge.

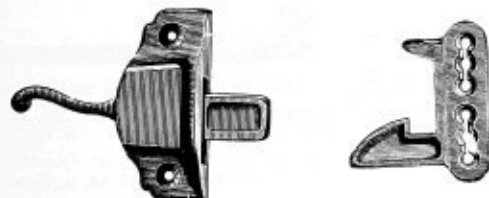
The latch is enclosed, requiring but a small mortise through the stile, and engages keeper on the post, which is adjustable to meet the sag of the gate.

No. 2C, One Set; No. 2H, One-quarter Dozen Pairs, No. 2L, One-half Dozen in a Box.



Upper Hinge.

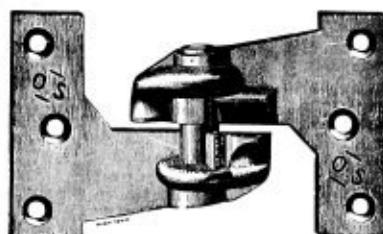
Lower Hinge.



Latch.

Reversible, For Gates to Swing One Way

- No. 1C—Set, Hinges and Latch Complete, Weight Per Dozen Sets 32 Lbs. \$6.00
- No. 1H—Hinges Only, Weight Per Dozen Pairs 22 Lbs. \$4.00
- No. 1L—Latches Only, Weight Per Dozen 8 Lbs. \$2.00
- No. 1C, One Set; No. 1H, One-quarter Dozen Pairs; No. 1L, One-half Dozen in a Box.

SHUTTER HINGES
OLD STYLE, LULL & PORTER

No. 50 Fastening.



| | Mortise | No. 1 1/2 Fastening. | No. 1 1/2 Fastening. |
|----------------------------------|---------|----------------------|----------------------|
| Nos. | 3 | 2 1/2 | 2 |
| Width Open, Inches. | 3 | 3 1/2 | 4 3/4 |
| Throw from Casing, In. | 1 3/4 | 1 3/4 | 2 3/4 |
| Fastening Packed with | | | |
| Hinges, Nos. | 1 1/2 | 1 1/2 | 1 1/2 |
| Weight Per Dozen Sets, Lbs. | 8 | 10 | 13 |
| Per Dozen Sets. | \$1.80 | 2.25 | 2.60 |
| Nos. | 1 | 0 | 00 |
| Width Open, Inches. | 5 3/4 | 6 1/2 | 9 1/4 |
| Throw from Casing, In. | 3 1/2 | 4 1/4 | 6 1/2 |
| Fastening Packed with | | | |
| Hinges, Nos. | 1 1/2 | 50 | 50 |
| Weight Per Dozen Sets, Lbs. | 17 1/2 | 30 | 45 |
| Per Dozen Sets. | \$3.00 | 6.00 | 10.00 |

No. 3, One Dozen; Nos. 2 1/2 to 1, One-half Dozen; Nos. 0 and 00, One-third Dozen; No. 000, One-sixth Dozen in a Box.

BLIND TURNBUCKLES



RIGHT HAND

Cast Iron, Japanned

- No. 23—For Wood, 2x2 in. Plate, Wrought Pin. \$1.50
- No. 21—For Brick, 4 1/4 in. Spike, Wrought Shank. 1.50
- One Dozen in a Box.

Hand Forged Steel,
Dead Black Finish

Pivoted above center so as to stand perpendicular by gravity.

6 in. High, 3/8 in. Thick, Tapered Ends.

- No. W—For Wood, One Right and One Left. \$1.50
- No. B—For Brick, One Right and One Left. 1.35
- Weight Per Pair 3 1/2 Pounds.
- Open Stock.

HINGE HASP STAPLES



| | | | |
|-------------------------------|---------------|---------------|--|
| No. 912—Wrought Steel, Bright | | | |
| For Hasps, In.... | 3 | 4 1/2 | |
| Plate, Inches.... | 1 1/2 x 1 1/2 | 1 1/2 x 1 1/2 | |
| Wt. Dozen, Lbs.. | % | % | |
| Per Dozen..... | \$0.85 | .85 | |
| For Hasps, In.... | 6 | 8 | |
| Plate, Inches.... | 1 1/2 x 1 1/2 | 2 x 1 1/2 | |
| Wt. Dozen, Lbs.. | 1 | 1 1/2 | |
| Per Dozen..... | \$1.10 | 1.65 | |
| For Hasps, In.... | 10 | 12 | |
| Plate, Inches.... | 2 1/2 x 2 | 2 1/2 x 2 | |
| Wt. Dozen, Lbs.. | 3 1/2 | 4 | |
| Per Dozen..... | \$2.65 | 2.65 | |

Staples for 10 and 12 in. Hasps, Two Dozen; Others, Three Dozen in a Box.

PADLOCK EYES



| | | | |
|---------------------------------------|--|--|--------|
| Malleable Iron Per Dozen | | | |
| No. 3350 1/4—1 3/4 x 1 1/2 in., Brass | | | |
| Plated, Weight Per Dozen | | | \$0.75 |
| No. 3351—2 1/4 x 2 in., Japanned, | | | |
| Weight Per Dozen 2 Lbs.. | | | 1.25 |
| Cast Brass | | | |
| No. 03350—1 3/4 x 1 1/2 in., Buffed | | | |
| and Lacquered, Weight Per | | | |
| Dozen 1/2 Lb..... | | | 3.25 |
| No. 03351—2 1/4 x 2 in., Buffed | | | |
| Lacquered, Weight Per Dozen | | | |
| 2 Lbs..... | | | 4.75 |

BAR STAPLES
HALF

| | | | |
|-------------------------------------|--|--|--------|
| Wrought Steel Per Dozen | | | |
| No. 100—For 1 1/4, 1 1/2, 1 3/4 and | | | |
| 2 in. Bars..... | | | \$3.00 |
| Open Stock. | | | |
| WHOLE | | | |



| | | | |
|-------------------------------------|--|--|--------|
| Wrought Steel Per Dozen | | | |
| No. 101—For 1 1/4, 1 1/2, 1 3/4 and | | | |
| 2 in. Bars..... | | | \$6.00 |
| Open Stock. | | | |

FOOTMAN LOOPS



| | | | |
|--------------------------|--|--|--------|
| Malleable Iron Per Pound | | | |
| No. 2—1 in., Heavy..... | | | \$0.35 |
| Open Stock. | | | |

AWNING HINGES



| | | | |
|--------------------------|--|--|--------|
| Malleable Iron Per Dozen | | | |
| No. 2—Galvanized | | | \$1.00 |
| Open Stock. | | | |

AWNING TIPS



| | | | |
|------------------------------------|--|--|--------|
| Malleable Iron, Galvanized, Tapped | | | |
| Per Dozen | | | |
| No. 1 —For 1/4 in. Pipe or 1/2 | | | |
| in. Rod | | | \$0.80 |
| No. 4 1/2—For 3/8 in. Pipe or 1/2 | | | |
| in. Rod | | | 1.20 |
| No. 5 1/2—For 1/2 in. Pipe or 3/4 | | | |
| in. Rod | | | 1.80 |
| No. 6 —For 3/4 in. Pipe or 1 | | | |
| in. Rod | | | 3.50 |
| Open Stock. | | | |

LINE CLEATS



| | | | |
|----------------------------|--|--|---------|
| Malleable Iron, Galvanized | | | |
| Per 100 | | | |
| No. 115—6 in., Weight Box | | | |
| 2 3/4 Lbs. | | | \$12.50 |
| No. 116—8 in., Weight Box | | | |
| 4 1/4 Lbs. | | | 20.00 |
| Twenty-five in a Box. | | | |



| | | | |
|-------------------------------|--|--|--------|
| Malleable Iron, Galvanized | | | |
| Per 100 | | | |
| No. 114—4 1/2 in., Weight Per | | | |
| Box 1 3/4 Lbs..... | | | \$7.50 |
| Twenty-five in a Box. | | | |



| | | | |
|-------------------------------|--|--|--------|
| Cast Iron, Galvanized | | | |
| Per 100 | | | |
| No. 111—1 1/2 in., Weight Per | | | |
| Box 1 3/4 Lbs..... | | | \$8.00 |
| No. 113—2 1/2 in., Weight Per | | | |
| Box 3 1/2 Lbs..... | | | 14.00 |
| Cast Brass, Polished | | | |
| No. 121—1 1/2 in., Weight Per | | | |
| Box 2 1/4 Lbs..... | | | 21.00 |
| No. 123—2 1/2 in., Weight Per | | | |
| Box 3 1/2 Lbs..... | | | 35.00 |
| Twenty-five in a Box. | | | |



| | | | |
|-------------------------------|--|--|---------|
| Cast Iron, Galvanized | | | |
| Per 100 | | | |
| No. 117—Heavy, 3 1/2 in., Wt. | | | |
| Per Box 9 3/4 Lbs..... | | | \$28.00 |
| Twenty-five in a Box. | | | |

AWNING
HOOKS

| | | | |
|---|--------|-------|-------|
| No. 160—Wrought Steel, Plain | | | |
| Length, In.... | 1 1/2 | 2 | 2 1/2 |
| Per Gross.... | \$2.40 | 2.60 | 3.00 |
| Length, Inches.... | 3 1/2 | 4 | 4 1/2 |
| Per Gross..... | \$5.50 | 6.00 | 7.40 |
| Length, Inches.... | 5 | 5 1/2 | 6 |
| Per Gross..... | \$8.60 | 9.40 | 10.00 |
| 3 in. and Smaller, One Gross; 3 1/2 and | | | |
| 4 in., One-half Gross; Others, | | | |
| One-quarter Gross in a Box. | | | |

STAY NAILS



| | | | |
|------------------------------|---------|-------|-------|
| No. 182—Wrought Steel, Plain | | | |
| Length, In.... | 5 | 6 | 7 |
| Per Gross.... | \$10.00 | 11.40 | 14.00 |

| | | | |
|--------------------------------|---------|-------|-------|
| No. 182T—Wrought Steel, Tinned | | | |
| Length, In.... | 5 | 6 | 7 |
| Per Gross.... | \$13.00 | 15.00 | 19.00 |

One-quarter Gross in a Box.



| | | | |
|------------------------------|---------|-------|--|
| No. 183—Wrought Steel, Plain | | | |
| Length, Inches.... | 3 | 3 1/2 | |
| Per Gross | \$8.00 | 9.00 | |
| Length, Inches.... | 4 | 4 1/2 | |
| Per Gross | \$10.00 | 11.00 | |

| | | | |
|--------------------------------|---------|-------|--|
| No. 183T—Wrought Steel, Tinned | | | |
| Length, Inches.... | 3 | 3 1/2 | |
| Per Gross | \$9.60 | 10.60 | |
| Length, Inches.... | 4 | 4 1/2 | |
| Per Gross | \$12.60 | 15.00 | |

One-quarter Dozen Gross in a Box.

MANTEL BOARD
HOOKS

| | | | |
|---------------------------------------|--------|------|------|
| No. 173—Wrought Steel, Plain | | | |
| Length, Inches.. | 3 | 4 | 5 |
| Per Dozen..... | \$1.40 | 1.50 | 1.60 |
| Length, Inches.. | 6 | 7 | 8 |
| Per Dozen..... | \$2.20 | 2.40 | 2.60 |
| 5 in. and Smaller, Two Dozen; Others, | | | |
| One Dozen in a Box. | | | |

PICTURE HOOKS



| | | | |
|-------------------------------------|--------|------|-------|
| No. 161—Wrought Steel, Plain | | | |
| Length, In.... | 4 | 5 | 6 |
| Per Gross.... | \$6.00 | 8.60 | 10.00 |
| 4 in., One-half Gross; Others, One- | | | |
| quarter Gross in a Box. | | | |

HOT HOUSE OR
GARDEN EYES

| | | | |
|------------------------------------|---------|-------|-------|
| No. 55—Galvanized | | | |
| Length, Inches. | 4 | 6 | 8 |
| Size Wire, Nos. | 5 | 4 | 4 |
| Per Gross.... | \$15.00 | 21.00 | 28.00 |
| 4 in., One Gross, Others, One-half | | | |
| Gross in a Box. | | | |

EYE BOLTS



No. 102—Wrought Steel, Galvanized
Hand Forged Eye, without Nut.

| | | | | | |
|-------------------------|-----------------|---------------|------------------|-----------------|------------------|
| Size of Rod, Inches... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ |
| Length Over All, In... | 3 $\frac{3}{4}$ | 4 | 4 $\frac{1}{2}$ | 5 $\frac{1}{4}$ | 5 $\frac{3}{4}$ |
| Diam. of Eye, Inches... | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 1 $\frac{1}{8}$ |
| Wt. Per 100, Lbs... | 7 $\frac{1}{2}$ | 13 | 20 $\frac{1}{2}$ | 30 | 43 $\frac{3}{4}$ |
| Per 100 | \$13.50 | 16.00 | 19.00 | 28.00 | 35.00 |

$\frac{1}{4}$ to $\frac{3}{8}$ in., Twenty-five in a Box; Others, Ten in a Box.



No. 83—Wrought Steel, Galvanized

$\frac{3}{8}$ in. Rod, $\frac{3}{8}$ in. Diameter Eye, Standard Thread, with Nut.

| | | | | |
|----------------------------|------------------|-------|-------|-------|
| Length Over All, Inches... | 3 $\frac{1}{2}$ | 4 | 6 | 8 |
| Weight Per 100, Lbs... | 22 $\frac{1}{2}$ | 25 | 30 | 35 |
| Per 100 | \$26.00 | 27.00 | 34.00 | 37.00 |

Ten in a Box.

No. 93—Wrought Steel, Galvanized

$\frac{1}{2}$ in. Rod, 1 in. Diameter Eye, Standard Thread, with Nut.

| | |
|----------------------------|------------------|
| Length Over All, Inches... | 4 |
| Weight Per 100, Lbs... | 32 $\frac{1}{2}$ |
| Per 100 | \$30.00 |

Ten in a Box.

No. 103—Wrought Steel, Galvanized

$\frac{1}{2}$ in. Rod, 1 $\frac{1}{2}$ in. Diameter Eye, Standard Thread, with Nut.

| | | | |
|----------------------------|---------|-------|------------------|
| Length Over All, Inches... | 6 | 8 | 10 |
| Weight Per 100, Lbs... | 55 | 70 | 87 $\frac{1}{2}$ |
| Per 100 | \$43.00 | 45.00 | 54.00 |

Five in a Box.

No. 113—Wrought Steel, Galvanized

$\frac{3}{8}$ in. Rod, 1 $\frac{1}{2}$ in. Diameter Eye, Standard Thread, with Nut.

| | | |
|----------------------------|-------------------|------------------|
| Length Over All, Inches... | 8 | 11 $\frac{1}{2}$ |
| Weight Per 100, Lbs... | 112 $\frac{1}{2}$ | 145 |
| Per 100 | \$70.00 | 85.00 |

Five in a Box.

SWING BOLTS



No. 113—Wrought Steel, Galvanized
Turned Eye, with Nut.

| | | | | | | |
|----------------------|-----------------|-----------------|---------------|-----------------|---------------|---------------|
| Length Over All, In. | 2 $\frac{1}{2}$ | 3 $\frac{1}{4}$ | 4 | 4 $\frac{1}{2}$ | 6 | 8 |
| Size of Rod, In... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Diam. of Eye, In... | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | $\frac{3}{4}$ | 1 |
| Per Gross | \$5.80 | 7.35 | 9.45 | 7.90 | 10.50 | 12.00 |

One Dozen in a Box.

No. 113L—Wrought Steel, Galvanized, Extra Lengths

| | | |
|--------------|-------------------|-------------------|
| Size, Inches | 12x $\frac{3}{8}$ | 14x $\frac{3}{8}$ |
| Per Dozen | \$2.00 | 2.50 |

Open Stock.

RING BOLTS

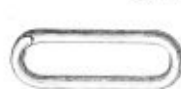


No. 132—Wrought Steel, Plain, Welded Eye.

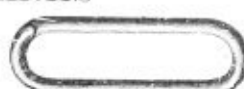
| | | | |
|--------------------------|---------------|-----------------|-----------------|
| Size, Inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length Under Eye, Inches | 3 | 3 $\frac{1}{2}$ | 4 $\frac{1}{4}$ |
| Per Dozen | \$3.40 | 3.80 | 5.00 |

One-half Dozen in a Box.

SPLIT LINKS



No. 00,



No. 0.

Brass

| | |
|-----------------------------------|-----------|
| No. 00—1 in. Long... | Per Gross |
| No. 0—1 $\frac{3}{8}$ in. Long... | \$1.50 |

One Gross in a Box.

S HOOKS



Bright Steel Wire

| | | |
|----------------------|-----------------|-----------------|
| Nos. | 2810 | 2812 |
| Size, Inches | 1 $\frac{5}{8}$ | 1 $\frac{3}{4}$ |
| Weight Per Box, Lbs. | 1 $\frac{1}{4}$ | $\frac{1}{2}$ |
| Per 100 | \$1.05 | .75 |

One Hundred in a Box.

No. 70—Wrought Steel, Bright, Pointed

| | | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Size, Inches | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 | 2 $\frac{1}{2}$ | 3 |
| Wt. Per Box, Lbs. | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 $\frac{3}{4}$ | 3 $\frac{3}{4}$ | 6 $\frac{3}{4}$ |
| Per 100 | \$2.90 | 3.40 | 3.60 | 4.70 | 5.80 |



No. 72—Wrought Steel, Galvanized, Pointed

| | | | | | |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Size, Inches | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 2 | 2 $\frac{1}{2}$ | 3 |
| Weight Per Box, Lbs. | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 3 $\frac{3}{4}$ | 6 $\frac{3}{4}$ |
| Per 100 | \$3.90 | 4.60 | 5.10 | 7.00 | 8.00 |

Fifty in a Box.

EIGHT HOOKS



No. 3.



No. 4.



No. 5.

Brass

| | | | |
|--------------|-----------------|------|---------------|
| Nos. | 3 | 4 | 5 |
| Size, Inches | 1 $\frac{1}{4}$ | 1 | $\frac{3}{8}$ |
| Per Gross | \$1.50 | 1.30 | 1.10 |

One Gross in a Box.

SCREW HOOKS



No. 122—Wrought Steel, Galvanized Extra Heavy

| | | | | |
|-----------------------------|-----------------|-----------------|------------------|------------------|
| Size of Rod, Inches... | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length Over All, Inches... | 4 $\frac{1}{4}$ | 4 $\frac{1}{2}$ | 4 $\frac{3}{4}$ | 5 $\frac{1}{4}$ |
| Length to Bend of Hook, In. | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ |
| Weight Per Box, Lbs. | 2 | 3 | 5 | 3 |
| Per 100 | \$7.50 | 9.00 | 11.00 | 16.00 |
| Size of Rod, Inches... | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Length Over All, Inches... | 6 | 7 | 8 | 8 |
| Length to Bend of Hook, In. | 3 $\frac{3}{4}$ | 4 | 4 | 4 $\frac{3}{4}$ |
| Weight Per Box, Lbs. | 4 $\frac{1}{2}$ | 8 | 13 $\frac{1}{2}$ | 13 $\frac{1}{2}$ |
| Per 100 | \$21.00 | 45.00 | 68.00 | 68.00 |

$\frac{1}{4}$ to $\frac{3}{8}$ in., Twenty-five; Others, Ten in a Box.

TRAP DOOR RINGS



No. 50—Wrought Steel, Plain Rings Only

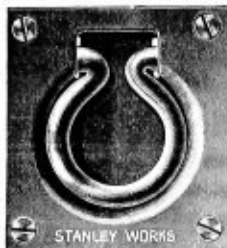
| | | |
|----------------------|--------|------|
| Size, Inches..... | 1 1/2 | 2 |
| Weight Per Box, Lbs. | 4 1/4 | 5 |
| Per 100..... | \$5.80 | 7.00 |
| Size, Inches..... | 2 1/2 | |
| Weight Per Box, Lbs. | 6 1/4 | |
| Per 100..... | \$8.50 | |

Fifty in a Box.

No. 1215J—Flush Wrought Steel, Japanned

| | | |
|--------------------|---------------|---------------|
| Size, Nos. | 1 | 2 |
| Size Plate, In.... | 3x3 1/2 | 3 1/2 x 3 3/4 |
| Size Wire, In.... | 1/8 | 3/8 |
| Weight Dozen, Lbs | 5 1/2 | 8 |
| Per Dozen..... | \$4.15 | 5.25 |
| Size, Nos. | 3 | |
| Size Plate, In.... | 3 3/4 x 4 1/4 | |
| Size Wire, In.... | 1/8 | |
| Weight Dozen Lbs. | 10 | |
| Per Dozen..... | \$7.15 | |

No. 1, One Dozen; Others, One-half Dozen in a Box, with Screws.



HITCHING RINGS



Wrought Steel

| | |
|--|-----------------|
| No. 25—2 1/2 in. Ring, Plain..... | Per 100 \$14.50 |
| No. 27—2 1/2 in. Ring, Galvanized..... | 18.00 |

Weight Per Box 2 3/4 Pounds.
Ten in a Box.

Wrought Steel, Solid Forged Eye

| | |
|------------------------------------|-----------------|
| No. 15—3 in. Ring, Plain..... | Per 100 \$28.00 |
| No. 17—3 in. Ring, Galvanized..... | 38.00 |

Weight Per Box 3 1/2 Pounds.
Ten in a Box.

Wrought Steel Ring and Swivel

2 3/8 in. Plate, 2 1/2 in. Ring

| | |
|-------------------------|-----------------|
| No. 236—Japanned..... | Per 100 \$22.00 |
| No. 237—Galvanized..... | 28.00 |

Weight Per Box 3 1/2 Pounds.

Ten in a Box.

HAMMOCK HOOKS



Wrought Steel, Tinned

No. 128—1/2 in. Steel, with Screw. Per 100 \$10.00

Weight Per Box 2 3/8 Pounds.

Ten in a Box.

Wrought Steel, Tinned

Per 100

No. 138—1 3/4 x 1 3/4 in. Plate, 1/2 in. Steel.....\$12.00

Weight Per Box 2 1/2 Pounds.

Ten in a Box.



CLOTHES LINE HOOKS



Cast Iron Per Dozen

No. 8—2 in. Hook, 1x2 3/8 in. Base, Japanned.....\$0.90

No. 28—2 in. Hook, 1x2 3/8 in. Base, Galvanized.....1.50

Weight Per Dozen 3 Pounds.

Three Dozen in a Box.

Cast Iron

Per Dozen

No. 16—2 in. Hook, 1 3/4 x 1 3/4 in. Plate, Japanned.....\$1.25

No. 36—2 in. Hook, 1 3/4 x 1 3/4 in. Plate, Galvanized.....1.50

Weight Per Box 3 3/4 Pounds.

Two Dozen in a Box.



DISPLAY HOOKS



Cast Iron

Per Dozen

No. 2836—8 in. Projection, Brass Plated.....\$4.00

Weight Per Dozen 6 1/4 Pounds.

One Dozen in a Box, with Screws.



Cast Iron

Per Dozen

No. 151—10 3/4 in. Projection, 3x1 in. Base, Japanned.....\$4.50

Weight Per Dozen 13 Pounds.

One Dozen in a Box.

HARNESS HOOKS



Cast Iron, Japanned

Per Dozen
No. 170—7 1/2 in. Projection,
4 3/4 x 1 1/2 in. Base.....\$3.00

Weight Per Dozen 11 3/4 Pounds.

One-half Dozen in a Box.

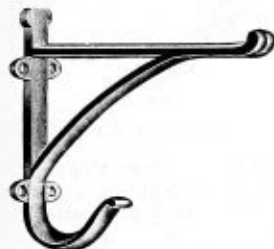


Cast Iron, Japanned

| | | | |
|------------------------------|---------------|-----------|------|
| Nos. | 160 | 161 | 162 |
| Projection, In. 3 3/4 | 5 | 5 1/2 | |
| Size Base, In. 2 7/8 x 1 5/8 | 3 1/2 x 1 1/2 | 3 1/4 x 2 | |
| Wt. Doz., Lbs. | 2 | 4 3/4 | 6 |
| Per Dozen... | \$1.90 | 2.10 | 2.40 |

| | | |
|-----------------------|-----------|-----------|
| Nos. | 165 | 166 |
| Projection, Inches... | 6 1/4 | 8 |
| Size Base, Inches... | 3 1/4 x 2 | 3 3/4 x 2 |
| Weight Dozen, Lbs... | 11 | 12 1/4 |
| Per Dozen | \$2.60 | 3.50 |

No. 160, Two Dozen; Others, One Dozen in a Box.



Cast Iron, Japanned

Per Dozen
No. 172—10 1/4 in. Projection,
10 1/2 x 2 3/4 in. Base.....\$12.50

Weight Per Dozen 16 Pounds.

Open Stock.



Cast Iron, Japanned

Per Dozen
No. 158—5 3/4 in. Projection,
3 3/8 x 1 in. Base.....\$2.00

Weight Per Dozen 7 Pounds.

Two Dozen in a Box.

SCHOOL HOUSE HOOKS



Cast Iron, Japanned

Per Dozen
No. 2—3 in. Projection.....\$1.00

Weight Per Dozen 3 Pounds.

Three Dozen in a Box.



Cast Iron, Japanned

Per Gross
No. 1089 1/4—3 in. Projection..\$12.80

Weight Per Dozen 3 1/2 Pounds.

Three Dozen in a Box, with Screws.

CEILING HOOKS



Cast Iron

2 1/2 in. Projection.

Per Dozen
No. J860—Japanned

No. N860—Bronze Plated..... 1.00

Weight Per Dozen 1 1/2 Pounds.

Cast Bronze

2 1/2 in. Projection.

Per Dozen
No. B860 1/2—Polished Bronze..\$6.05

Weight Per Dozen 1 3/4 Pounds.

No. 860, Three Dozen; Others, One Dozen in a Box, with Screws.



Cast Iron, Japanned

Per Gross
No. 1162—2 1/2 in. Projection..\$8.00

Weight Per Dozen 3/8 Pound.

Six Dozen in a Box.

CEILING HOOKS



Steel Wire

2 in. Projection.

Per Gross
No. 082—Coppered

No. 682—Nickel Plated..... 6.50

Brass Wire

No. 782—Solid Brass..... 18.00
Weight Per Gross 9 Pounds.
One-half Gross in a Box.

COAT AND HAT HOOKS



Steel Wire

3 in. Projection.

Per Gross
No. 0123—Coppered

No. 6123—Nickel Plated..... 4.50

Brass Wire

No. 7123—Solid Brass..... 17.00
Weight Per Gross 8 3/8 Pounds.
One-half Gross in a Box.



Cast Iron, Japanned

Per Gross
No. 1870—3 3/8 in. Projection...\$6.65
Weight Per Dozen 1 1/2 Pounds.
Six Dozen in a Box.



Wrought Steel

3 1/2 in. Projection.

Per Dozen
No. B02871 1/2—Bronze Plated...\$1.78
Weight Per Dozen 1 1/4 Pounds.
Three Dozen in a Box, with Screws.

4 in. Projection.

Per Dozen
No. B02872—Bronze Plated...\$2.00
Weight Per Dozen 2 1/2 Pounds.
Two Dozen in a Box, with Screws.

COAT AND HAT HOOKS



Cast Brass

3 in. Projection.

Per Dozen
No. 03640—Burnished Brass...\$3.10
No. 3640N—Nickel Plated.... 4.80

Weight Per Box 2 Pounds.

Ten in a Box, with Screws.



Cast Iron

3 1/4 in. Projection.

Per Gross
No. J01032—Jappanned\$8.90
No. B1033—Bronze Plated... 9.80
No. EA1033—Dull Brass 9.80
No. R1033—Antique Copper... 9.80
No. E1033—Nickel Plated...10.80

Weight Per Dozen 2 Pounds.

Cast Bronze

3 1/4 in. Projection.

Per Dozen
No. A01034 1/2—Polished Brass...\$5.55
No. E01034 1/2—Nickel Plated,
Polished 6.10

Weight Per Dozen 2 1/4 Pounds.

No. 01032, Six Dozen; No. 1033,
Three Dozen; No. 01034 1/2, One
Dozen in a Box, with Screws.



Cast Iron

3 3/4 in. Projection.

Per Dozen
No. B03239—Bronze Plated...\$1.00
No. R03239—Ant. Copper.... 1.00
No. EA03239—Dull Brass..... 1.00

Weight Per Dozen 2 1/4 Pounds.

Two Dozen in a Box, with Screws.

COAT AND HAT HOOKS



Cast Brass

3 in. Projection.

Per Dozen
No. 03600—Burnished Brass...\$3.10
No. 3600—Nickel Plated 4.80
Weight Per Dozen 2 Pounds.
Ten in a Box, with Screws.



Cast Bronze

5 1/4 in. Projection.

Each
No. B02426—Polished Bronze...\$3.35
Weight Per Dozen 7 1/4 Pounds.
One-half Dozen in a Box, with Screws.



Cast Iron

Height 5 3/8 in., 3 1/2 in. Projection.

Per Dozen
No. 322DB—Dull Brass.....\$2.00
Weight Per Dozen 4 Pounds.
One Dozen in a Box.

COAT AND HAT HOOKS



Cast Iron

Length 4 1/2 in., 2 5/8 x 1 5/8 in. Base.
Per Dozen
No. P948-AC—Antique Copper...\$2.20
Weight Per Dozen 5 Pounds.
One Dozen in a Box, with Screws.

HALL TREE HOOKS



Cast Iron

Height 6 1/2 in., 4 1/4 in. Projection.
Per Dozen
No. 26-OC—Antique Copper...\$1.60
Weight Per Dozen 6 Pounds.
One Dozen in a Box, with Screws.



Cast Iron

Height 7 in., Width 7 in., 3 3/8 in. Projection.

Per Dozen
No. 28-OC—Antique Copper...\$3.50
Weight Per Dozen 12 Pounds.
One Dozen in a Box, with Screws.

HALL TREE HOOKS



Cast Iron

Height 7 1/2 in.

Per Dozen
No. 8242—Antique Copper\$3.00
No. 8262—Dull Brass 3.00
Weight Per Dozen 8 Pounds.
One Dozen in a Box, with Screws.

ROBE HOOKS



Cast Brass, Polished

Per Dozen
No. 5854—3 3/4 in. High, 2 3/4 in. Projection\$3.40
Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box, with Screws.



Cast Brass, Polished

Per Dozen
No. 5852—1 1/2 in. High, 1 1/4 in. Projection\$2.60
Weight Per Dozen 1 1/2 Pounds.
Two Dozen in a Box, with Screws.

COAT AND HAT HOOKS



Cast Brass, Polished

Per Dozen
No. 5115—4 3/4 in. High, 3 3/4 in. Projection\$11.00
Weight Per Dozen 4 1/2 Pounds.
One Dozen in a Box, with Screws.

COAT AND HAT HOOKS



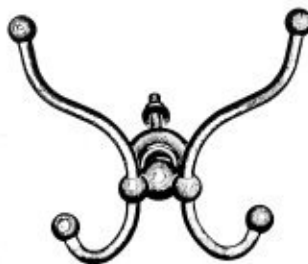
Cast Brass Stud

Wrought Brass Balls and Arm.
Per Dozen
No. 5718—4 in. High, 2 1/2 in. Projection\$6.50
Weight Per Dozen 2 3/4 Pounds.
No. 5133—6 1/2 in. High, 3 in. Projection 9.00
Weight Per Dozen 3 3/4 Pounds.
One Dozen in a Box, with Screws.



Wrought Steel, Brass Plated

Per Dozen
No. 59-BP—6 in. High, 6 in. Between Prongs, 2 3/4 in. Projection\$2.00
Weight Per Dozen 4 3/4 Pounds.
One-half Dozen in a Box.



Cast Brass Stud

Brass Tubing Arms and Balls, with Bolt and Nut.

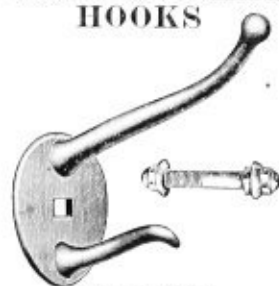
Per Dozen
No. 5728—6 1/2 in. High, 5 1/2 in. Between Prongs, 3 1/4 in. Projection\$24.00
Weight Per Dozen 9 1/2 Pounds.
One-half Dozen in a Box.



Cast Brass, Polished

Per Dozen
No. 5116—4 3/4 in. High, 7 in. Between Prongs, 4 in. Projection\$23.00
Weight Per Dozen 9 Pounds.
One-half Dozen in a Box.

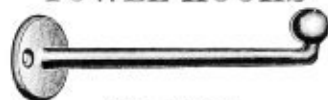
COAT AND HAT HOOKS



Cast Bronze

4 in. Projection, with Bolt for Marble. Each
No. E2425—Nickel Plated, Polished\$3.65
Weight Per Dozen 5 1/2 Pounds.
One Dozen in a Box, with Bolts.

TOWEL HOOKS



Cast Bronze

5 1/2 in. Projection.

Per Dozen
No. B1239 1/2—Polished Bronze\$9.35
No. E1239 1/2—Nickel Plated 10.20
Weight Per Dozen 3 Pounds.
One Dozen in a Box, with Screws.



Cast Bronze

3 in. Projection.

Per Dozen
No. B1339 1/2—Polished Bronze\$8.00
No. E1339 1/2—Nickel Plated, Polished 8.90
Weight Per Dozen 1 1/2 Pounds.
One Dozen in a Box, with Screws.

WARDROBE HOOKS



Cast Brass

1 1/2 in. Projection.

Per Dozen
No. 3561 —Polished Brass\$3.50
No. 3561-N—Nickel Plated 4.00
Weight Per Box 4 Pounds.
Twenty-five in a Box, with Screws.

RAZOR STROP HOOKS



Cast Brass

1 1/2 in. Projection.

Per Dozen
No. 3571—Nickel Plated, Polished\$3.50
Weight Per Box 2 Pounds.
Twenty-five in a Box, with Screws.

GARMENT HANGERS

FOLDING



No. 1020—Retinned Steel Wire. \$1.50
One Dozen in a Bundle.

TROUSER AND SKIRT HANGERS



No. 1025-2—Nickel Plated. . . . \$1.50
One Dozen in a Box.

TROUSER AND SKIRT HANGERS



No. 1124—Nickel Plated, Holds
4 Pairs of Trousers or Skirts. \$3.00
One Dozen in a Box.

EXTENSION GARMENT CARRIERS

ROLLEASY

The Rolleasy Fixtures are constructed for Life Time Service. The Trim Nickeled Bar Slides on Noiseless Roller Bearings at a touch of the finger.

These fixtures double the capacity of any closet and keep the garments in better condition.



No. 1016—Nickel Plated

| Length, Inches | 12 | 14 | 16 | 18 |
|-------------------|--------|-------|------|-------|
| Weight Each, Lbs. | 1 1/2 | 1 3/4 | 2 | 2 1/2 |
| Each | \$1.50 | 1.70 | 1.90 | 2.10 |

Open Stock.

WIRE PICTURE CORD

No. 0

No. 1

No. 2

No. 3

No. 4

No. 5

No. 6

Braided Tinned Steel

25 Foot Coils

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|-----------------|--------|------|------|------|------|------|------|
| No. of Strands | 4 | 8 | 12 | 16 | 20 | 24 | 28 |
| Per Dozen Coils | \$1.00 | 1.25 | 1.50 | 2.00 | 2.25 | 2.75 | 3.00 |

25 Yard Coils

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|-----------------|--------|------|------|------|------|------|------|
| Per Dozen Coils | \$2.00 | 3.00 | 4.00 | 5.25 | 6.50 | 8.00 | 9.00 |

One Coil in a Carton, One Dozen Cartons in a Box.

5 Pound Spools

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------|--------|------|------|------|------|------|------|
| Yards on Spool | 1335 | 670 | 430 | 328 | 259 | 220 | 189 |
| Per Spool | \$4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |

Open Stock.

Brass

25 Foot Coils

| Nos. | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------------|--------|------|------|------|------|-------|-------|
| No. Strands | 4 | 8 | 12 | 16 | 20 | 24 | 28 |
| Dozen Coils | \$2.25 | 3.50 | 4.75 | 6.50 | 8.25 | 10.00 | 11.75 |

25 Yard Coils

| Nos. | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------------|--------|------|-------|-------|-------|-------|-------|
| Dozen Coils | \$5.25 | 9.00 | 13.50 | 18.00 | 22.50 | 27.00 | 31.50 |

One Coil in a Carton, One Dozen Cartons in a Box.

5 Pound Spools

| Nos. | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------|--------|------|------|------|------|------|------|
| Yd. on Spool | 1335 | 670 | 430 | 328 | 259 | 220 | 189 |
| Per Spool | \$5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |

Open Stock.

BIRD CAGE SPRINGS



Solid Brass

No. 95—Single Per Dozen \$2.00
Three Dozen in a Box.



Solid Brass

No. 295—Double Per Dozen \$5.00
Two Dozen in a Box.

BIRD CAGE HOOKS



Cast Iron

Length 7 in.

No. Y3028—Amber Bronzed Per Dozen \$1.85
Weight Per Dozen 6 Pounds.
Two Dozen in a Box.



Cast Iron

Length 9 in.

No. Y3024 1/2—Amber Bronzed Per Dozen \$3.35
Weight Per Dozen 5 1/4 Pounds.
One Dozen in a Box, with Screws.

BATH ROOM FIXTURES

TUMBLER HOLDERS



Without Tumbler

- No. 3352—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 3 1/2 Lbs. \$12.50
One-quarter Dozen in a Box, with Screws.



Without Tumbler

- No. 3350—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 3 3/4 Lbs. \$8.80
One-quarter Dozen in a Box, with Screws.

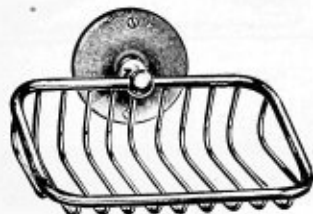
COMBINATION TUMBLER AND TOOTH BRUSH HOLDERS



Without Tumbler

- No. 3351—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 7 1/2 Lbs. \$12.60
One-quarter Dozen in a Box, with Screws.

SOAP DISHES



For Wall

- No. 3179—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 4 Lbs. \$11.00
One-quarter Dozen in a Box, with Screws.

SOAP DISHES



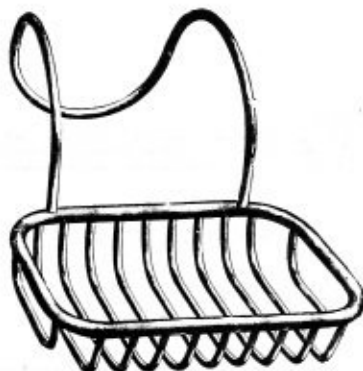
For Wall

- No. 3672—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 5 Lbs. \$15.20
One-quarter Dozen in a Box, with Screws.



For Wall

- No. 3527—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 7 Lbs. \$19.00
One-quarter Dozen in a Box, with Screws.



For Bath Tub

- No. 3252—5 1/4 x 4 in., Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Dozen 3 3/4 Lbs. \$15.00
One-quarter Dozen in a Box.

COMB AND BRUSH TRAYS



- No. 2904—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 13 Lbs. \$38.00
One-quarter Dozen in a Box, with Screws.

TOOTH BRUSH HOLDERS



For Four Brushes

- No. 3224—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 2 1/2 Lbs. \$8.50

One-half Dozen in a Box, with Screws.

COMBINATION TUMBLER HOLDERS AND SOAP DISHES

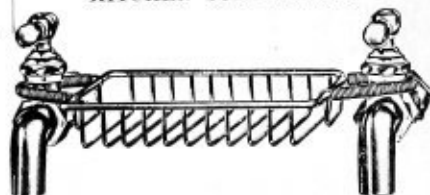


Without Tumbler

- No. 3253—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 8 1/2 Lbs. \$21.00

One-quarter Dozen in a Box, with Screws.

KITCHEN SOAP DISHES



Adjustable to Any Sink Faucet

- No. 182—4x6 in., Solid Brass, Heavily Nickel Plated and Polished, with a Spring on Each End to Fit Over Any Faucet, Weight Per Dozen 4 1/2 Lbs. \$24.00

One-half Dozen in a Box.

BATH ROOM FIXTURES

TOWEL BARS



No. 3168—Brass, Highly Polished and Heavily Nickel Plated

$\frac{1}{2}$ in. Bar, 2 in. Wall Plates, $2\frac{1}{2}$ in. Projection.

| | | |
|--------------------|-----------------|-----------------|
| Length, Inches.... | 18 | 24 |
| Weight Dozen, Lbs. | 4 $\frac{1}{2}$ | 5 $\frac{3}{4}$ |
| Per Dozen | \$10.00 | 12.00 |

| | |
|-------------------------|---------|
| Length, Inches | 30 |
| Weight Dozen, Lbs. | 7 |
| Per Dozen | \$14.00 |

One-quarter Dozen in a Box, with Screws.



No. 3231—Brass, Highly Polished and Heavily Nickel Plated

$\frac{5}{8}$ in. Bar, $2\frac{1}{4}$ in. Wall Plates, 3 in. Projection.

| | | |
|--------------------|-----------------|-----------------|
| Length, Inches.... | 18 | 24 |
| Weight Dozen, Lbs. | 6 $\frac{3}{4}$ | 7 $\frac{3}{4}$ |
| Per Dozen | \$16.00 | 18.50 |

| | |
|-------------------------|-----------------|
| Length, Inches | 30 |
| Weight Dozen, Lbs. | 9 $\frac{3}{4}$ |
| Per Dozen | \$21.00 |

One-sixth Dozen in a Box, with Screws.



No. 3269—Brass, Highly Polished and Heavily Nickel Plated

$\frac{5}{8}$ in. Bar, $2\frac{1}{4}$ in. Wall Plate, $2\frac{1}{4}$ in. Projection.

| | | |
|--------------------|-----------------|-----------------|
| Length, Inches.... | 18 | 24 |
| Weight Dozen, Lbs. | 7 $\frac{3}{4}$ | 9 $\frac{3}{4}$ |
| Per Dozen | \$20.00 | 22.50 |

One-sixth Dozen in a Box, with Screws.



No. 3691—Crystal Glass Bar, Nickel Plated Brass Posts

$\frac{3}{4}$ in. Bar, $2\frac{1}{4}$ in. Wall Plates, $2\frac{1}{2}$ in. Projection.

| | | |
|--------------------|-----------------|-----------------|
| Length, Inches.... | 18 | 24 |
| Weight Dozen, Lbs. | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ |
| Per Dozen | \$26.00 | 29.00 |

| | |
|-------------------------|---------|
| Length, Inches | 30 |
| Weight Dozen, Lbs. | 2 |
| Per Dozen | \$33.00 |

Posts, One Pair in a Box, with Screws; Glass Part Packed Separately.

ROLLER TOWEL BARS



No. 3363—18 in. Bar, $2\frac{1}{2}$ in. Wall Plates, $2\frac{1}{2}$ in. Projection, Brass, Highly Polished and Heavily Nickel Plated, Weight Per Dozen 12 Lbs.

Per Dozen

| | |
|-------------------------|---------|
| Length, Inches | 30 |
| Weight Dozen, Lbs. | 2 |
| Per Dozen | \$32.00 |

One-sixth Dozen in a Box, with Screws.

SWING TOWEL BARS



With One Arm

No. 5438— $\frac{3}{8}$ x $15\frac{1}{2}$ in. Arm, Per Dozen

$3\frac{1}{2}$ x $1\frac{1}{2}$ in. Base, Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 4 Lbs. \$15.00

One-half Dozen in a Box, with Screws.



With Two Arms

No. 5359— $\frac{3}{8}$ x $15\frac{1}{2}$ in. Arms, Per Dozen

$3\frac{1}{2}$ x $1\frac{1}{2}$ in. Base, Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen 7 Lbs. \$21.00

One-half Dozen in a Box, with Screws.



With Three Arms

No. 5360— $\frac{3}{8}$ x $15\frac{1}{2}$ in. Arms, Per Dozen

$3\frac{1}{2}$ x $1\frac{1}{2}$ in. Base, Solid Brass, Highly Polished, Heavily Nickel Plated, Wt. Per Dozen 10 Lbs. \$27.00

One-half Dozen in a Box, with Screws.

WHISK BROOM HOLDERS



No. 2901—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen

$2\frac{1}{2}$ Lbs. \$8.00

One-half Dozen in a Box, with Screws.

TOILET PAPER HOLDERS



No. 3383—Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen

$5\frac{1}{2}$ Lbs. \$11.50

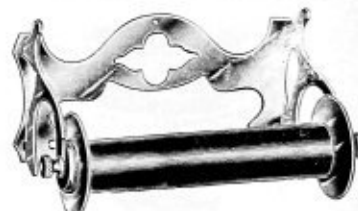
One-quarter Dozen in a Box, with Screws.



No. 3777—Solid Brass, Highly Polished, Heavily Nickel Plated, with Ebonized Wood Roller, Weight Per Dozen 5 Lbs.

\$10.00

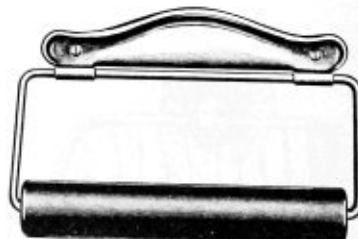
One-quarter Dozen in a Box, with Screws.



No. 2683—5 in. Roller, Solid Brass, Highly Polished, Heavily Nickel Plated, Weight Per Dozen $8\frac{1}{4}$ Lbs.

\$36.50

One-half Dozen in a Box, with Screws.



No. 3445—Solid Brass Back Plate, Steel Wire Bail, Highly Polished and Nickel Plated, Wood Roller, Wt. Per Dozen 4 Lbs.

\$4.50

One Dozen in a Box, with Screws.

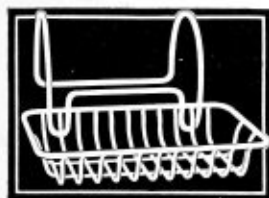
BATH ROOM FIXTURES

NAT WIRE "EVERLASTINGLY WHITE"

These Bath Room Fixtures are made of Heavy Highest Quality Steel, uniformly covered with glazed white enamel which will not chip or discolor. They may be washed; hot water and soap have no injurious effect on them. The heavy wires, rods and plates used in their construction are electrically welded uniting the parts into a single piece of great strength and stiffness and also giving an even surface throughout.

Enameled Head Screws Furnished with All Fixtures.

SOAP DISHES

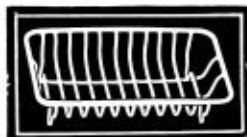


For Bath Tub

Per Dozen
No. 75-WE—Length 5 7/8 in., Width 3 3/8 in., Depth 1 in., Weight Per Dozen 4 1/8 Lbs. \$5.35
One-half Dozen in a Carton.

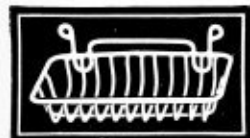
For Stand

Per Dozen
No. 60-WE—Length 5 7/8 in., Width 3 3/8 in., Depth 1 in., Weight Per Dozen 2 3/8 Lbs. \$4.00
One-half Dozen in a Carton.



For Wall

Per Dozen
No. 65-WE—Length 5 7/8 in., Width, 3 3/8 in., Depth 1 in., Weight Per Dozen 3 1/8 Lbs. \$4.40
One-half Dozen in a Carton.



TUMBLER HOLDERS

Per Dozen
No. 51-WE—Inside Diameter of Ring 2 3/8 in., Depth of Cup 2 1/4 in., Projection from Wall 4 1/2 in., Weight Per Dozen 1 1/2 Lbs. \$2.65
One-half Dozen in a Carton.



SPONGE OR BRUSH BASKETS



For Bath Tub

Per Dozen
No. 100-WE—Length 7 3/8 in., Width 4 3/8 in., Depth 3 3/8 in., Weight Per Dozen 5 1/8 Lbs. \$8.00
One-half Dozen in a Carton.

TOWEL BARS



5/16 in. Bar, 2 1/4 in. Wall Plates, 3 1/2 in. Projection

| Nos. | 512-WE | 518-WE | 524-WE |
|------------------------|--------|--------|--------|
| Length, Inches | 12 | 18 | 24 |
| Weight Per Dozen, Lbs. | 4 1/2 | 6 3/8 | 8 5/8 |
| Per Dozen | \$6.00 | 6.70 | 8.00 |

One-half Dozen in a Carton.

GLASS SHELVES



No. 77-WE—White Opaque Glass Shelf with Polished Rounded Edges

Brackets with 2 1/4 in. Wall Plates.

| Size Shelf, Inches | 5x18 | 5x24 |
|------------------------|--------|------|
| Each | \$3.60 | 4.00 |
| Brackets Only—Per Pair | \$1.00 | |

Shelves, One Dozen in a Case; Brackets, One-quarter Dozen in a Box.

TOOTH BRUSH HOLDERS



For Five Brushes

Per Dozen
No. 187-WE—Length Over All 5 5/8 in., 2 1/4 in. Wall Plates, 2 1/4 in. Projection \$5.35
One-half Dozen in a Carton.

TOILET PAPER HOLDERS



Per Dozen
No. 97-WE—2 1/4 in. Wall Plate, Projection 4 in., Tinned Wire Center Guide, Fits Any Size Roll, Wt. Per Dozen 2 3/8 Lbs. \$4.40

One-half Dozen in a Carton.

GARMENT HOOKS

Per Dozen
No. 913-WE—Handy Hook, 3 in. Projection, Weight Per Dozen 3 Lbs. \$0.60
Three Dozen in a Carton.



BATH ROOM FIXTURES

PERFECT PORCELAIN ENAMELED

These bath room fixtures are made of cast iron with the porcelain enamel fused on at a heat of 1700 degrees Fahrenheit, the same process being used as on bath tubs. The finish is durable and lustrous, easy to keep clean, and is guaranteed not to rust, craze or change color. With ordinary care the finish will last a lifetime. Enameled head screws furnished with all fixtures.

SOAP DISHES



For Wall, with Removable
Opal Tray

Per Dozen
No. P-106—4 3/4 x 4 1/4 in.,
Weight Per Dozen
11 1/4 Lbs. \$16.66
One in a Box.



For Wall

Per Dozen
No. P-121—4 1/2 x 5 1/4 in.,
Weight Per Dozen
10 1/2 Lbs. \$16.00
One in a Box.

TUMBLER HOLDERS



Without Tumbler

Per Dozen
No. P-150—4 1/2 x 3 1/2 in.,
Weight Per Dozen
7 1/2 Lbs. \$8.90
One in a Box.

COMBINATION TUMBLER HOLDERS AND SOAP DISHES



Without Tumbler

Per Dozen
No. P-148—4 1/2 x 5 1/2 in.,
Wt. Per Dozen
13 1/2 Lbs. \$26.66
One in a Box.

TUMBLER AND TOOTH BRUSH HOLDERS



Without Tumbler

Per Dozen
No. P-149 — 4 1/2 x 4 1/2 in.,
Weight Per Dozen
11 1/4 Lbs. \$17.68
One in a Box.

RAZOR STROP HOOKS



Per Dozen
No. P-12—1 1/2 in. Long, Weight Per
Dozen 2 1/4 Lbs. \$2.66
One Dozen in a Box.

ROBE HOOKS



Per Dozen
No. P-128—3 in. Long, Weight
Per Dozen 3 Lbs. \$5.00
One Dozen in a Box.



Per Dozen
No. P-96—3 in. Long, Weight Per
Dozen 2 1/4 Lbs. \$3.32
One Dozen in a Box.

TOWEL BARS

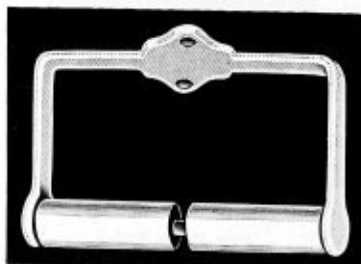


No. P-5—3/4 in. Diameter Bar

| | | |
|------------------------|---------|-------|
| Length, Inches | 18 | 24 |
| Weight Per Dozen, Lbs. | 15 | 18 |
| Per Dozen | \$16.10 | 19.70 |

One in a Box.

TOILET PAPER HOLDERS

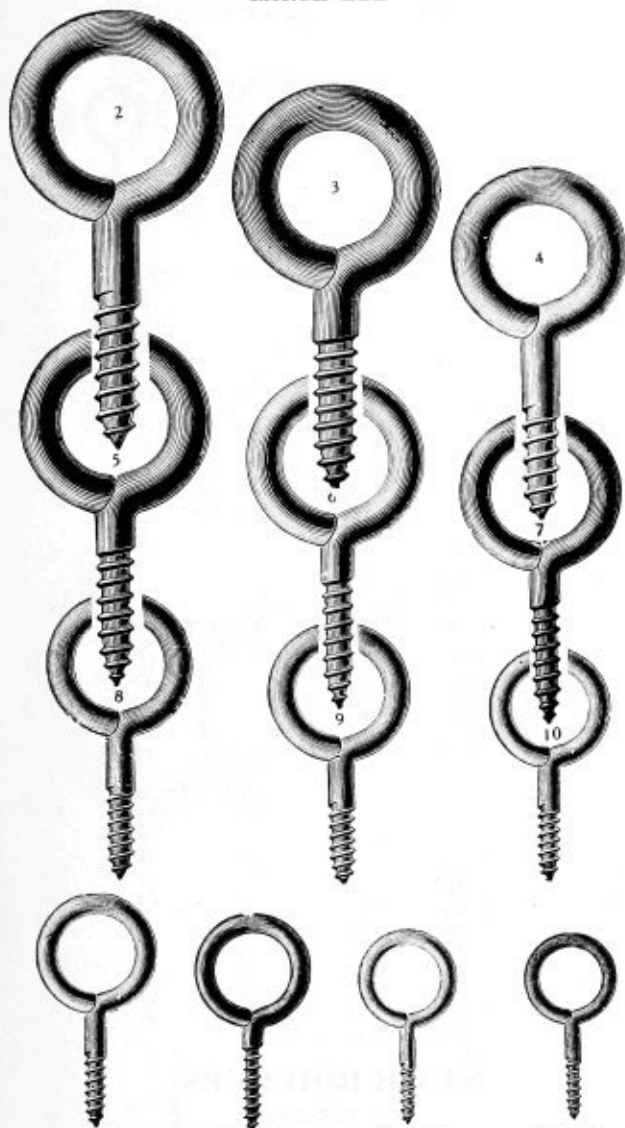


Per Dozen
No. P-123—5 3/4 x 4 in., Weight Per Dozen 9 Lbs. \$15.00
One in a Box.

WIRE SCREW EYES

Cuts Full Size.

LARGE EYE



| No. 11. | | No. 12. | | No. 13. | | No. 14. | |
|------------|-----------|-----------|-----------|---------------|----------------------|---------------|---------------|
| No. Bright | Per Gross | No. Brass | Per Gross | Size Wire No. | Length. Over All In. | Lgth Stem In. | I. D. Eye In. |
| 000 | \$40.00 | ..... | ..... | 000 | 3 7/8 | 2 1/2 | 1 1/2 |
| 00 | 30.00 | ..... | ..... | 00 | 3 1/2 | 1 1/2 | 1 1/2 |
| 0 | 16.00 | 1000 | 70.00 | 0 | 2 7/8 | 1 1/2 | 1 1/2 |
| 1 | 13.00 | 1001 | 57.50 | 1 | 2 3/4 | 1 1/2 | 1 1/2 |
| 2 | 11.00 | 1002 | 48.00 | 2 | 2 1/2 | 1 1/2 | 1 1/2 |
| 3 | 9.00 | 1003 | 37.00 | 3 | 2 1/4 | 1 1/2 | 1 1/2 |
| 4 | 7.00 | 1004 | 30.00 | 4 | 2 3/8 | 1 1/2 | 1 1/2 |
| 5 | 5.80 | 1005 | 26.00 | 5 | 2 1/2 | 1 1/2 | 1 1/2 |
| 6 | 4.50 | 1006 | 21.00 | 6 | 1 1/2 | 1 1/2 | 1 1/2 |
| 7 | 3.80 | 1007 | 16.00 | 7 | 1 1/2 | 1 1/2 | 1 1/2 |
| 8 | 3.30 | 1008 | 13.00 | 8 | 1 1/2 | 1 1/2 | 1 1/2 |
| 9 | 2.80 | 1009 | 10.00 | 9 | 1 1/2 | 1 1/2 | 1 1/2 |
| 10 | 2.50 | 1010 | 9.00 | 10 | 1 1/2 | 1 1/2 | 1 1/2 |
| 11 | 2.00 | 1011 | 7.00 | 11 | 1 1/2 | 1 1/2 | 1 1/2 |
| 12 | 1.70 | 1012 | 5.50 | 12 | 1 1/2 | 1 1/2 | 1 1/2 |
| 13 | 1.50 | 1013 | 4.50 | 13 | 1 1/2 | 1 1/2 | 1 1/2 |
| 14 | 1.50 | 1014 | 3.50 | 14 | 1 1/2 | 1 1/2 | 1 1/2 |

Nos. 000 to 4 and 1000 to 1004, One-half Gross; Others, One Gross in a Box.

WIRE SCREW EYES

Cuts Full Size.

MEDIUM EYE



No. 104.
No. 1104.

No. 105.
No. 1105.

No. 106.
No. 1106.



No. 107.
No. 1107.

No. 108.
No. 1108.

No. 109.
No. 1109.



| No. 110. | | No. 111. | | No. 112. | | No. 113. | | No. 114. | |
|------------|-----------|-----------|-----------|---------------|----------------------|---------------|---------------|-----------|-----------|
| No. Bright | Per Gross | No. Brass | Per Gross | Size Wire No. | Length. Over All In. | Lgth Stem In. | I. D. Eye In. | No. 1110. | No. 1114. |
| 104 | \$7.00 | 1104 | \$30.00 | 4 | 2 1/2 | 1 1/2 | 1 1/2 | 1110 | 1114 |
| 105 | 5.80 | 1105 | 26.00 | 5 | 1 1/2 | 1 1/2 | 1 1/2 | 1111 | 1115 |
| 106 | 4.50 | 1106 | 21.00 | 6 | 1 1/2 | 1 1/2 | 1 1/2 | 1112 | 1116 |
| 107 | 3.80 | 1107 | 16.00 | 7 | 1 1/2 | 1 1/2 | 1 1/2 | 1113 | 1117 |
| 108 | 3.30 | 1108 | 13.00 | 8 | 1 1/2 | 1 1/2 | 1 1/2 | 1114 | 1118 |
| 109 | 2.80 | 1109 | 10.00 | 9 | 1 1/2 | 1 1/2 | 1 1/2 | 1115 | 1119 |
| 110 | 2.50 | 1110 | 9.00 | 10 | 1 1/2 | 1 1/2 | 1 1/2 | 1116 | 1120 |
| 111 | 2.00 | 1111 | 7.00 | 11 | 1 1/2 | 1 1/2 | 1 1/2 | 1117 | 1121 |
| 112 | 1.70 | 1112 | 5.50 | 12 | 1 1/2 | 1 1/2 | 1 1/2 | 1118 | 1122 |
| 113 | 1.50 | 1113 | 4.50 | 13 | 1 1/2 | 1 1/2 | 1 1/2 | 1119 | 1123 |
| 114 | 1.50 | 1114 | 3.50 | 14 | 1 1/2 | 1 1/2 | 1 1/2 | 1120 | 1124 |

One Gross in a Box.

WIRE SCREW EYES

Cuts Full Size.

SMALL EYE

No. 204
No. 1204No. 205
No. 1205No. 206
No. 1206No. 207
No. 1207No. 208
No. 1208No. 209
No. 1209No. 210
No. 1210No. 211
No. 1211No. 212
No. 1212No. 213
No. 1213No. 214
No. 1214No. 215
No. 1215No. 216
No. 1216

| No. | Per | No. | Per | Size | Lgth. | Lgth. | I.D. |
|------|--------|-------|---------|------|----------|-------|------|
| Br't | Gross | Brass | Gross | Wire | Ov. All. | Stem | Eye. |
| | | | | No. | In. | In. | In. |
| 204 | \$7.00 | 1204 | \$30.00 | 4 | 1 1/2 | 1 1/2 | 3/8 |
| 205 | 5.80 | 1205 | 26.00 | 5 | 1 3/4 | 1 3/4 | 7/16 |
| 206 | 4.50 | 1206 | 21.00 | 6 | 1 5/8 | 1 5/8 | 7/16 |
| 207 | 3.80 | 1207 | 16.00 | 7 | 1 3/4 | 1 3/4 | 7/16 |
| 208 | 3.30 | 1208 | 13.00 | 8 | 1 3/4 | 1 3/4 | 7/16 |
| 209 | 2.80 | 1209 | 10.00 | 9 | 1 3/4 | 1 3/4 | 7/16 |
| 210 | 2.50 | 1210 | 9.00 | 10 | 1 3/4 | 1 3/4 | 7/16 |
| 211 | 2.00 | 1211 | 7.00 | 11 | 1 3/4 | 1 3/4 | 7/16 |
| 212 | 1.70 | 1212 | 5.50 | 12 | 1 3/4 | 1 3/4 | 7/16 |
| 213 | 1.50 | 1213 | 4.50 | 13 | 1 3/4 | 1 3/4 | 7/16 |
| 214 | 1.50 | 1214 | 3.50 | 14 | 1 3/4 | 1 3/4 | 7/16 |
| 215 | 1.50 | 1215 | 3.50 | 15 | 1 3/4 | 1 3/4 | 7/16 |
| 216 | 1.50 | 1216 | 3.50 | 16 | 1 3/4 | 1 3/4 | 7/16 |

One Gross in a Box.

BIRD CAGE EYES



Bright Steel Wire

Per Gross

No. 218—Size of Wire No. 8, Length Over All 1 1/2 in.,
Length of Stem 1 1/4 in., Inside Diameter of Eye
1 1/8 in., Weight Per Gross 1 9/10 Lbs. \$3.20

One Gross in a Box.

WIRE SCREW EYES

Cuts Full Size.

SHORT SHANK, MEDIUM EYE



Nos. 110 1/2

111 1/2

112 1/2

113 1/2

114 1/2

115 1/2

116 1/2

| No. | Size | Length | Length | I. D. |
|---------|------|-----------|--------|-------|
| Bright | Wire | Over All, | Stem, | Eye, |
| Steel | No. | In. | In. | In. |
| 110 1/2 | 10 | 1 1/2 | 1/2 | 3/8 |
| 111 1/2 | 11 | 1 | 1/2 | 3/8 |
| 112 1/2 | 12 | 1 1/2 | 3/8 | 3/8 |
| 113 1/2 | 13 | 1 1/2 | 3/8 | 3/8 |
| 114 1/2 | 14 | 1 1/2 | 3/8 | 3/8 |
| 115 1/2 | 15 | 1 1/2 | 3/8 | 3/8 |
| 116 1/2 | 16 | 1 1/2 | 3/8 | 3/8 |

One Gross in a Box.

SHORT SHANK, SMALL EYE



Nos. 208 1/2

209 1/2

211 1/2

212 1/2

214 1/2

215 1/2

216 1/2

| No. | Size | Length | Length | I. D. |
|---------|------|-----------|--------|-------|
| Bright | Wire | Over All, | Stem, | Eye, |
| Steel | No. | In. | In. | In. |
| 208 1/2 | 8 | 1 1/2 | 1/2 | 1/4 |
| 209 1/2 | 9 | 1 1/2 | 1/2 | 1/4 |
| 210 1/2 | 10 | 1 | 1/2 | 1/4 |
| 211 1/2 | 11 | 1 1/2 | 1/2 | 1/4 |
| 212 1/2 | 12 | 1 1/2 | 1/2 | 1/4 |
| 213 1/2 | 13 | 1 1/2 | 1/2 | 1/4 |
| 214 1/2 | 14 | 1 1/2 | 1/2 | 1/4 |
| 215 1/2 | 15 | 1 1/2 | 1/2 | 1/4 |
| 216 1/2 | 16 | 1 1/2 | 1/2 | 1/4 |

One Gross in a Box.

STAIR ROD EYES

Cut Full Size.



Bright Steel Wire

Per Gross

No. 408—Size of Wire No. 9, Length Over All 2 1/2 in.,
Length of Stem 1 1/2 in., Inside Diameter of Eye
1 1/8 in., Weight Per Gross 3 Lbs. \$4.50

One Gross in a Box.

MOSQUITO BAR EYES

Bright Steel Wire

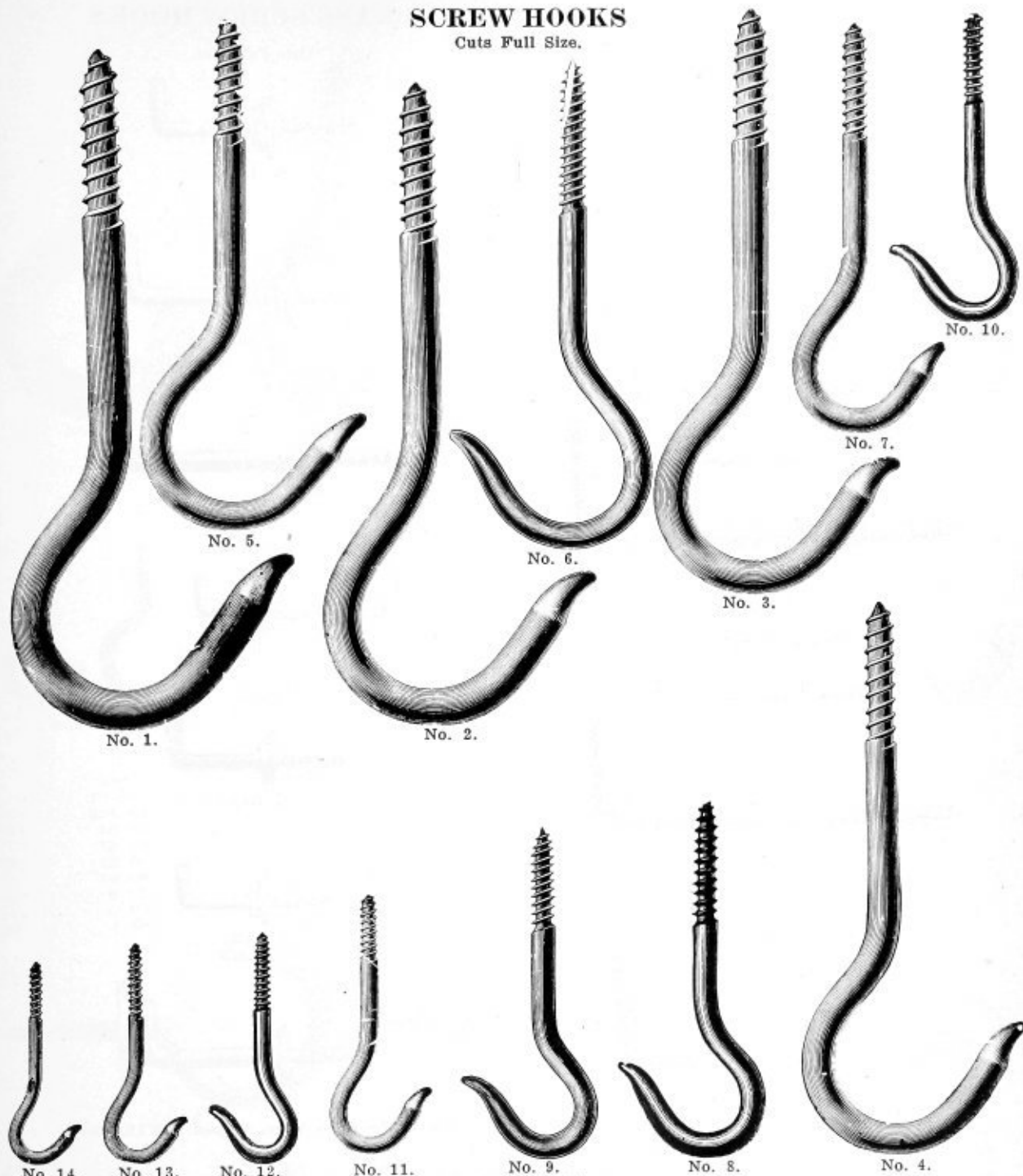
Per Gross

No. 416—Size of Wire No. 8, Length Over All 2 1/2 in.,
Length of Stem 1 1/2 in., Inside Diameter of Eye
1 in., Weight Per Gross 4 1/2 Lbs. \$12.00

One Gross in a Box.

SCREW HOOKS

Cuts Full Size.

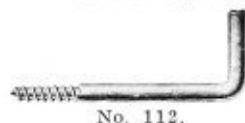


| No. | Per Gross | Size Wire, No. | Length Over All, Inches | I. D. Hook, Inches | Bright Steel Wire Weight Gross, Lbs. | No. | Per Gross | Size Wire, No. | Length Over All, Inches | I. D. Hook, Inches | Weight Gross, Lbs. |
|-----|-----------|----------------|-------------------------|--------------------|--------------------------------------|-----|-----------|----------------|-------------------------|--------------------|--------------------|
| 0 | \$21.00 | 0 | 4 1/8 | 1 1/8 | 19 1/2 | 8 | \$4.00 | 8 | 2 3/16 | 3/16 | 2 3/10 |
| 1 | 18.00 | 1 | 4 1/2 | 1 1/8 | 15 1/2 | 9 | 3.50 | 9 | 2 1/16 | 3/16 | 2 1/10 |
| 2 | 15.00 | 2 | 4 5/8 | 1 1/8 | 12 7/10 | 10 | 3.00 | 10 | 2 1/16 | 3/16 | 1 3/4 |
| 3 | 12.50 | 3 | 4 3/4 | 1 1/8 | 10 3/4 | 11 | 2.80 | 11 | 1 7/8 | 3/16 | 1 1/4 |
| 4 | 10.00 | 4 | 3 7/8 | 1 1/8 | 8 1/4 | 12 | 2.50 | 12 | 1 1/2 | 3/16 | 1 1/4 |
| 5 | 8.00 | 5 | 3 5/8 | 1 1/8 | 6 1/2 | 13 | 2.30 | 13 | 1 1/2 | 3/16 | 1 1/4 |
| 6 | 6.00 | 6 | 3 3/8 | 1 1/8 | 5 1/2 | 14 | 2.00 | 14 | 1 1/8 | 3/16 | 1 1/4 |
| 7 | 4.50 | 7 | 2 1/2 | 1 1/8 | 3 3/4 | | | | | | |

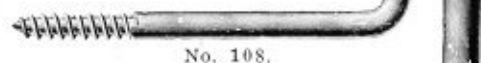
Nos. 0 to 4, One-half Gross; Others, One Gross in a Box.

SQUARE SCREW HOOKS

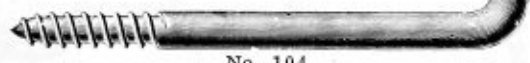
Cuts Full Size.



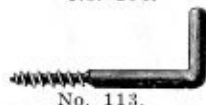
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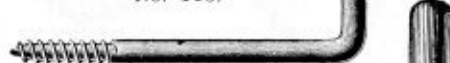
No. 108.



No. 104.



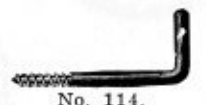
No. 113.



No. 109.



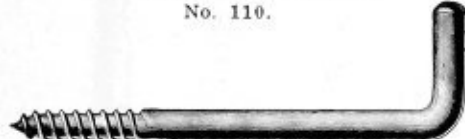
No. 105.



No. 114.



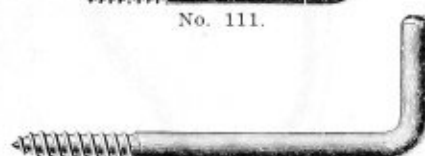
No. 110.



No. 106.



No. 111.



No. 107.

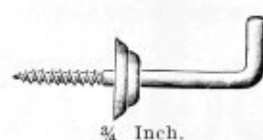
Bright Steel Wire

| No. | Per Gross | Size Wire, Over All, No. | Length Hook, In. | Weight Gross, Lbs. |
|-----|-----------|--------------------------|------------------|--------------------|
| 104 | \$10.00 | 4 | 3 1/8 | 5 1/10 |
| 105 | 8.00 | 5 | 2 3/8 | 4 1/2 |
| 106 | 6.00 | 6 | 2 5/8 | 3 1/2 |
| 107 | 4.50 | 7 | 2 7/8 | 2 3/4 |
| 108 | 4.00 | 8 | 2 1/4 | 2 1/8 |
| 109 | 3.50 | 9 | 2 | 1 3/8 |
| 110 | 3.00 | 10 | 1 13/16 | 1 1/8 |
| 111 | 2.80 | 11 | 1 1/2 | 9/10 |
| 112 | 2.50 | 12 | 1 3/8 | 1/2 |
| 113 | 2.30 | 13 | 1 1/8 | 7/8 |
| 114 | 2.00 | 14 | 1 | 1/4 |

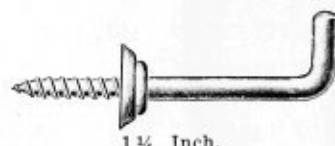
One Gross in a Box.

BRASS SCREW HOOKS

Cuts Full Size.



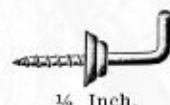
3/4 Inch.



1 1/4 Inch.



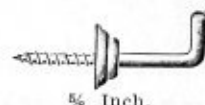
1 1/2 Inch.



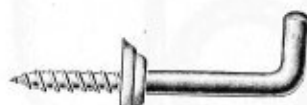
1/2 Inch.



3/8 Inch.



5/8 Inch.



1 Inch.

No. 1412—Brass Wire, Dipped and Lacquered

| Projection, in. | Per Gross | Size Wire, No. | Dia. Base, in. | Weight Gross, Lbs. |
|-----------------|-----------|----------------|----------------|--------------------|
| 1/2 | \$3.75 | 15 | 3/8 | 2 3/8 |
| 5/8 | 3.85 | 14 | 7/16 | 3 3/8 |
| 3/4 | 4.00 | 13 | 1/2 | 9/10 |
| 7/8 | 4.50 | 12 | 5/8 | 1 |
| 1 | 5.25 | 11 | 1/2 | 1 1/4 |
| 1 1/8 | 7.00 | 10 | 5/8 | 1 1/2 |
| 1 1/4 | 9.00 | 9 | 3/4 | 1 3/4 |
| 1 1/2 | 11.00 | 8 | 3/4 | 2 1/2 |
| 1 3/4 | 15.00 | 7 | 3/4 | 3 1/2 |
| 2 | 18.00 | 6 | 3/4 | 4 1/2 |

1/2 to 1 1/2 in., One Gross; Others, One-half Gross in a Box.

CUP HOOKS

Cuts Full Size.



No. 601



No. 602



No. 603



No. 604



No. 605



No. 614



No. 613



No. 612



No. 611



No. 610



No. 609



No. 608

No. 607

| Bright Steel Wire | | | | | | | | | |
|-------------------|-----------|----------------|----------------------|-----------------|--------------------|-----|-----------|----------------|----------------------|
| No. | Per Gross | Size Wire, No. | Length Over All, In. | I. D. Hook, In. | Weight Gross, Lbs. | No. | Per Gross | Size Wire, No. | Length Over All, In. |
| 600 | \$21.00 | 0 | 2 3/4 | 1/8 | 12 1/2 | 608 | \$4.00 | 8 | 1 3/4 |
| 601 | 18.00 | 1 | 2 1/2 | 1/8 | 9 1/2 | 609 | 3.50 | 9 | 1 1/2 |
| 602 | 15.00 | 2 | 2 1/4 | 1/8 | 8 1/2 | 610 | 3.00 | 10 | 1 1/4 |
| 603 | 12.50 | 3 | 2 3/8 | 1/8 | 6 3/4 | 611 | 2.80 | 11 | 1 3/8 |
| 604 | 10.00 | 4 | 2 1/2 | 1/8 | 5 1/2 | 612 | 2.50 | 12 | 1 1/2 |
| 605 | 8.00 | 5 | 2 1/8 | 1/8 | 4 1/2 | 613 | 2.30 | 13 | 1 1/8 |
| 606 | 6.00 | 6 | 2 | 5/16 | 3 3/4 | 614 | 2.00 | 14 | 1 1/8 |
| 607 | 4.50 | 7 | 1 1/2 | 1/2 | 2 7/10 | | | | |

One Gross in a Box.



1 1/2 Inch



1 Inch



3/4 Inch



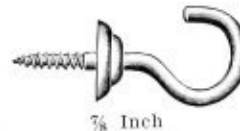
5/8 Inch



1 1/4 Inch



1 1/8 Inch



7/8 Inch



1/2 Inch

No. 181—Brass Wire, Dipped and Lacquered

| Projection In. | Per Gross. | Size Wire, No. | Diameter Base, In. | Weight Gr., Lbs. | Projection In. | Per Gross. | Size Wire, No. | Diameter Base, In. | Weight Gr., Lbs. |
|----------------|------------|----------------|--------------------|------------------|----------------|------------|----------------|--------------------|------------------|
| 1/2 | \$3.75 | 15 | 3/8 | 1/4 | 1 1/8 | \$7.00 | 10 | 5/8 | 1 3/4 |
| 5/8 | 3.85 | 14 | 7/8 | 2/5 | 1 1/4 | 9.00 | 9 | 5/8 | 2 1/2 |
| 3/4 | 4.00 | 13 | 7/8 | 3/5 | 1 1/2 | 11.00 | 8 | 3/4 | 3 1/4 |
| 7/8 | 4.50 | 12 | 1/2 | 4/5 | 1 3/4 | 15.00 | 7 | 3/4 | 4 7/10 |
| 1 | 5.25 | 11 | 1/2 | 1 1/4 | 2 | 18.00 | 6 | 3/4 | 6 1/2 |

1/2 to 1 1/8 in., One Gross; Others, One-half Gross in a Box.

CORNICE HOOKS

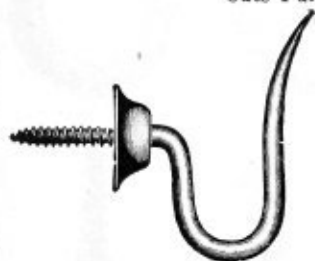


| No. 30—Bright Steel Wire, with Eye | | | |
|------------------------------------|---------|-------|--------|
| Length, Inches.... | 3 | 4 | 5 |
| Weight Gross, Lbs. | 6 | 7 1/2 | 10 1/2 |
| Per Gross | \$17.00 | 20.00 | 23.00 |
| Length, Inches.... | 8 | 10 | 12 |
| Weight Gross, Lbs. | 15 | 19 | 24 |
| Per Gross | \$30.00 | 36.00 | 42.00 |

One-half Gross in a Box.

TELEGRAPH HOOKS

Cuts Full Size.



Solid Brass

| | | Per Gross |
|---------------------|------------------|-----------|
| No. 701 — 1 1/2 in. | High, 1 in. Pro- | |
| jection, Wt. Per | | |
| Gross 1 1/4 Lbs. | | \$8.00 |

One-half Gross in a Box.

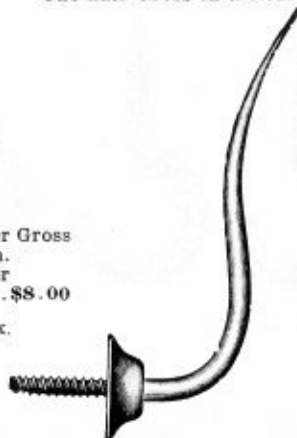
DESK HOOKS

Cut Full Size.

Solid Brass

| | | Per Gross |
|-------------------------------|------------------------|-----------|
| No. 702—2 1/4 in. High, 1 in. | Projection, Weight Per | |
| Gross 4 Lbs. | | \$8.00 |

One-half Dozen in a Box.



BRUSH OR DUSTER HOOKS

Cut Full Size.

Cast Brass, Steel Screw

Per 100

| | |
|----------------------------|---------|
| No. 10—5/8 in. Projection, | |
| Weight Per Box, 1 1/4 Lbs. | \$11.50 |
| Fifty in a Box. | |



MOULDING HOOKS

Brass

Per Gross

| | |
|-------------------|--------|
| No. 178—1 1/2 in. | \$5.00 |
|-------------------|--------|

One-quarter Gross in a Box.



No. 178.

Brass, Polished

Per Gross

| | |
|-------------------|--------|
| No. 180—1 1/2 in. | \$6.00 |
|-------------------|--------|

One-quarter Gross in a Box.



No. 180.

Steel

Per Gross

| | |
|-----------------------------|--------|
| No. 0146—1 1/2 in., Brassed | \$1.50 |
|-----------------------------|--------|

One Gross in a Box.

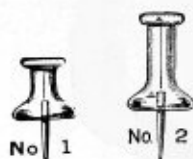


No. 0146.

GLASS PUSH PINS

MOORE

Moore Push Pins are not to be hammered, but pushed in with an awl-like motion of the hand. Used for hanging up little things on plaster walls or painted woodwork without disfiguring them.



Solid Transparent
Crystal Glass Head,
Steel Needle Point

Per Carton

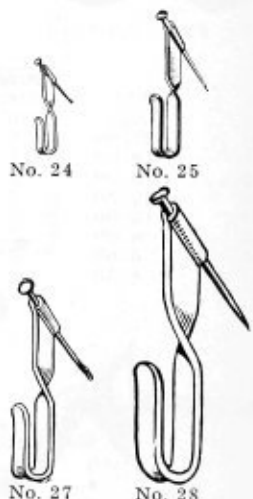
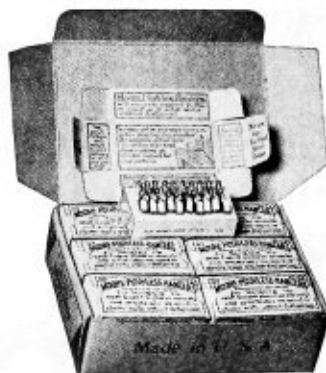
No. C1 — Carton,
Contains 1 Dozen
Packets No. 1 Push
Pins (1/2 Dozen in
a Packet).....\$1.60

No. C2 — Carton,
Contains 1 Dozen
Packets No. 2 Push
Pins (1/2 Dozen in
a Packet)..... 1.60

PUSHLESS HANGERS

MOORE

For hanging up pictures, mirrors, racks, nick-nacks, etc. The point is long enough to penetrate through plaster and go into lath or brick.



Brass Plated Steel Hooks, Tool Tempered Steel Nails

Per Carton

No. C24—Carton, Contains 1 Dozen Packets No. 24
Pushless Hangers (5/8 Dozen in a Packet), Will
Sustain a Load of 10 Lbs.....\$1.60

No. C25—Carton, Contains 1 Dozen Packets No. 25
Pushless Hangers (1/2 Dozen in a Packet), Will
Sustain a Load of 20 Lbs..... 1.60

No. C27—Carton, Contains 1 Dozen Packets No. 27
Pushless Hangers (1/4 Dozen in a Packet), Will
Sustain a Load of 50 Lbs..... 1.60

No. C28—Carton, Contains 1 Dozen Packets No. 28
Pushless Hangers (1/4 Dozen in a Packet), Will
Sustain a Load of 100 Lbs..... 1.60

CURTAIN RINGS

| Brass | | | | | |
|------------------------|---------------|---------------|---------------|---------------|---------------|
| Nos. | 20 | 18 | 18 | 18 | 18 |
| Inside Diam., In. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Per Gross | \$0.15 | .18 | .19 | .20 | .25 |
| Nos. | 18 | 18 | 16 | 14 | |
| Inside Diam., In. | $\frac{3}{8}$ | $\frac{7}{8}$ | $\frac{3}{4}$ | 1 | |
| Per Gross | \$0.30 | .38 | .38 | .67 | |

No. 14, 1 in., Six Gross; Others, Twelve Gross in a Box.

SOLID BRASS RINGS

| No. 138—Brazed | | | | |
|------------------------|---------------|---------------|-----------------|---------------|
| Inside Diam., In. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Per Gross | \$2.50 | 2.75 | 3.00 | 3.50 |
| Inside Diam., In. | $\frac{7}{8}$ | 1 | 1 $\frac{1}{4}$ | |
| Per Gross | \$3.75 | 4.00 | 7.00 | |

One Gross in a Box.

SCREW RINGS

| No. 18—Brass | | | |
|----------------------------|---------------|---------------|---------------|
| Inside Diam., Inches. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Per Gross | \$0.45 | .75 | |

One Gross in a Box.

GROMMET RINGS

| Malleable Iron, Galvanized | | | | |
|----------------------------|---------------|---------------|-----------------|--|
| No. 778—Light | | | | |
| Inside Diam., Inches. | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | |
| Per Gross | \$0.80 | .90 | 1.30 | |
| No. 779—Heavy | | | | |
| Inside Diam., Inches. | $\frac{7}{8}$ | 1 | 1 $\frac{1}{4}$ | |
| Per Gross | \$2.40 | 3.20 | 6.30 | |

One Gross in a Box.

GROMMETS

| Sheet Brass, Rolled Rim, with Washer | | | |
|---------------------------------------|----------------|---------------|---------------|
| Nos. | 0 | 1 | 2 |
| Size Hole when Inserted, Inches. | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ |
| Per Gross | \$0.50 | .80 | 1.10 |
| Nos. | 3 | 4 | |
| Size Hole when Inserted, Inches. | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Per Gross | \$1.50 | 2.50 | |

One Gross in a Box.

SPLIT KEY RINGS

| No. 142—Tempered Polished Steel | | | | |
|---------------------------------|---------------|---------------|-----------------|---------------|
| Diameter, In. | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ |
| Per Gross | \$1.50 | 1.60 | 1.90 | 2.25 |
| Diameter, In. | $\frac{7}{8}$ | 1 | 1 $\frac{1}{4}$ | |
| Per Gross | \$2.50 | 2.65 | 3.25 | |

One Gross in a Box.

Ornamental

| Per Gross | |
|--|--------|
| No. 294—1 $\frac{1}{8}$ in. Diameter. | \$7.50 |

One Dozen on a Card.

KEY RINGS



| Ball Pattern | |
|----------------------|------------------|
| No. 100—Nickel. | Per Gross \$8.00 |



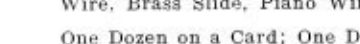
| Heart Pattern | |
|----------------------|------------------|
| No. 862—Nickel. | Per Gross \$8.00 |

One Dozen on a Card.



| Ornamental | |
|--|-------------------|
| No. 1870—1 $\frac{1}{2}$ in., Nickel. | Per Gross \$16.00 |

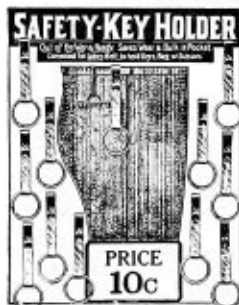
One Dozen on a Card.



| Steel Wire, Nickel Plated | |
|--|------------------|
| No. 1—Length 2 in., Width $\frac{3}{4}$ in., Bessemer Steel Wire, Brass Slide, Piano Wire Spring. | Per Dozen \$3.00 |

One Dozen on a Card; One Dozen Cards in a Box.

SAFETY KEY HOLDERS



| Polished Spring Steel | |
|-----------------------------|------------------|
| No. 281—Nickel Plated. | Per Dozen \$2.00 |

One Dozen on a Card.

KEY CHAINS

| Nickel Plated Steel | |
|--|-----------------|
| No. 9112 Assortment—Three Styles Assorted Chains. | Per Card \$3.00 |

One Dozen on a Card.



STRAIGHT SPRING BALANCES

Light Pattern

Japanned Case, Brass Face, Plain Figures, Tinned Ring and Hook.

No. 2000
Capacity, Lbs. 25x $\frac{1}{2}$
Weight Dozen, Lbs. 2 $\frac{1}{4}$
Per Dozen \$3.00

No. 30
Capacity, Lbs. 50x1
Weight Dozen, Lbs. 4 $\frac{1}{2}$
Per Dozen \$6.00
No. 200, One Dozen; No. 30,
One-half Dozen in a Box.

Heavy Pattern

Japanned Case, Brass Face, Plain Figures, Tinned Ring and Hook.

Nos. 40 60
Capacity, Lbs. 25x $\frac{1}{2}$ 40x $\frac{1}{2}$
Wt. Doz., Lbs. 5 $\frac{1}{2}$ 16
Per Dozen \$8.00 24.00

No. 70
Capacity, Lbs. 50x1
Weight Dozen, Lbs. 10
Per Dozen \$16.00

Nos. 40 and 70, One-half
Dozen; No. 60, One-quarter
Dozen in a Box.

Extra Heavy Pattern

Japanned Case, Brass Face, Plain Figures, Tinned Ring and Hook.

Nos. 80 90
Capacity, Lbs. 80x1 100x1
Wt. Doz., Lbs. 19 39
Per Dozen \$48.00 84.00

Nos. 100 100-A
Capacity, Lbs. 125x1 150x1
Wt. Doz., Lbs. 45 52
Per Dozen \$96.00 120.00

No. 100-B
Capacity, Lbs. 200x2
Weight Dozen, Lbs. 54
Per Dozen \$144.00

No. 80, One-quarter Dozen;
Nos. 90 to 100-B, One in Box

ICE BALANCES

IRON CLAD

Nickel Plated Brass Dial Plate

Malleable Iron Case, Black Japanned and Ornamented, Heavy Hook and Ring.

No. 160
Capacity, Lbs. 300x5
Weight Dozen, Lbs. 66
Per Dozen \$108.00

Compact and durable, not liable to get out of order. Superior to any other scale on the market.

One in a Box.

FAMILY SCALES

COLUMBIA



5 $\frac{1}{2}$ in. Square Steel Top, 6 in. White Enameled Slanting Dial

Heavy Sheet Steel Frame, Black Enameled and Decorated in Gilt.

Each

No. 6021—Capacity 24 Lbs. by Ounces, 8 $\frac{1}{2}$ in. High Over All, Covered Regulating Screw, Weight Per Dozen 51 Lbs. \$2.00
Six in a Case.



5 $\frac{1}{2}$ in. Square Steel Top, with Seamless Tinned Scoop, 6 in. White Enameled Slanting Dial
Heavy Sheet Steel Frame, Black Enameled and Decorated in Gilt.

Each

No. 16021—Capacity 24 Lbs. by Ounces, 12 in. High Over All, Covered Regulating Screw, Weight Per Dozen 60 Lbs. \$2.50
Six in a Case.



5 $\frac{1}{2}$ in. Square Steel Top, 6 in. White Enameled Vertical Dial

Heavy Sheet Steel Frame, Black Enameled and Decorated in Gilt.

Each

No. 1021—Capacity 24 Lbs. by Ounces, 9 $\frac{1}{4}$ in. High Over All, Covered Regulating Screw, Weight Per Dozen 60 Lbs. \$2.00
Six in a Case.



5 $\frac{1}{2}$ in. Square Steel Top with Seamless Tinned Scoop, 6 in. White Enameled Vertical Dial.

Heavy Sheet Steel Frame, Black Enameled and Decorated in Gilt.

Each

No. 11021—Capacity 24 Lbs. by Ounces, 12 $\frac{3}{4}$ in. High Over All, Covered Regulating Screw, Weight Per Dozen 78 Lbs. \$2.50
Six in a Case.

FAMILY SCALES

FAVORITE



Round Steel Platform, 6 in. White Enameled Vertical Dial, 7 in. Glass Sash.

Heavy Sheet Steel Frame, Black Enameled and Handsomely Ornamented, 14x7 in. Pieced Tin Scoop.

Each

No. 1037—Capacity 10 Lbs. by Ounces, with Regulating Screw, Weight Each 12 Lbs. \$7.00
Six in a Case.

UNION COUNTER SCALES

CHATILLON



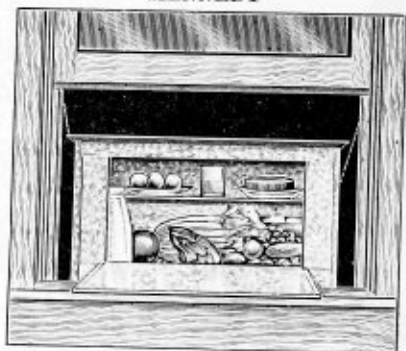
Single Brass Beam Black Enameled, Decorated in Gold, Hanging Poise, Cast Steel Bearings.

Each

No. 10—Capacity 240 Lbs. by $\frac{1}{2}$ Oz., with Patent Seamless Tin Scoop, Weight Each 60 Lbs. \$28.75
One in a Box.

WINDOW REFRIGERATORS

KENNEDY



Galvanized Steel

Corner Binding Strips and Sloping Top which projects over Sides, Front and Back make for Neatness of appearance. Narrow Slits afford ventilation.

Each

No. 24-R—24 in. Wide, 12 in. Deep, 14 in. High, May be Used on Any Window 20 in. Wide or Over, Weight Each 8 Lbs. \$4.00

Sets outside the window and its contents are removed from inside the house.

Six in a Crate.

ICE CREAM FREEZERS

LIGHTNING



Automatic Twin Scrapers insure automatic, positive and continuous scraping of frozen cream from side of can.

These Scrapers are hung on Dasher so that their lower ends rest on bottom of can and the friction between ends of Scrapers and Can Bottom when in motion moves the Scrapers against sides of can and holds them there positively and continually.

Triple Motion, with Crank

Automatic Twin Scrapers, Pine Tub, Electric Welded Wire Hoops, Drawn Steel Bottom Can, Inside Parts Heavily Coated with Pure Tin, Galvanized Outside Parts, Covered Gearing.

| | 2 | 3 | 4 | 6 |
|-------------------|--------|---------|-------|--------|
| Quarts | | | | |
| Weight Each, Lbs. | 9 1/2 | 11 1/2 | 14 | 18 1/2 |
| Each | \$5.50 | 6.50 | 8.00 | 10.00 |
| Quarts | | 8 | 10 | 12 |
| Weight Each, Lbs. | | 24 | 30 | 33 1/2 |
| Each | | \$13.00 | 17.00 | 21.00 |

The Famous "Wheel Dasher" found in this Freezer, revolves continuously during the final freezing of cream and produces the velvety smoothness secured in hand made ice cream by careful and continued paddling.

Open Stock.

ICE CREAM DISHERS

GILCHRIST AUTOMATIC

Will automatically discharge the ice cream from the bowl without effort. Can be quickly taken apart for cleaning.



Nickel Silver Bowl and Scraper

| Nos. | 31-12 | 31-16 | 31-20 | 31-24 |
|--------------------|---------|-------|-------|-------|
| Dishes to Quart | 12 | 16 | 20 | 24 |
| Weight Dozen, Lbs. | 8 1/2 | 8 1/2 | 8 | 7 3/4 |
| Per Dozen | \$24.00 | 24.00 | 24.00 | 24.00 |

One in a Box.

ICE SHAVES

STOVER



Cast Iron, Tinned, Adjustable Steel Blade

| No. | 1-5 in. Long, | 2 in. High, 1 1/4 in. Wide, Weight | Per Dozen |
|-----|---------------|------------------------------------|-------------|
| | | | 12 |
| | | | Lbs. \$6.00 |

Holds enough for just one tumbler full, catches all the ice.

One Dozen in a Box.

ICE PICKS

STANLEY "HURWOOD"



Tempered Steel Needle Point Blade

| No. | C—Blade 5 1/2 in. Long, 5/8 in. Diameter, 9 in. Long Over All, Black Stained Wood Handle, Wt. | Per Dozen |
|-----|---|---------------|
| | | 2 Lbs. \$5.40 |

Two patented projecting wings under the head together with a rivet which passes through the steel ferrule, handle and shank, securely fastens the blade in the handle.

One-half Dozen in a Box.

ICE PICKS

PERFECT POINT



Tempered Silver Steel Blade, Will Not Bend or Break

| No. | 8—Blade 4 1/2 in. Long, 8 1/2 in. Long Over All, Rubberoid Finished Wood Handle, Nickel Plated Ferrule, Weight Per Dozen 1 3/4 Lbs. | Per Dozen |
|-----|---|-----------|
| | | \$1.50 |

One Dozen in a Box.



Tempered Silver Steel Blade, Will Not Bend or Break

| No. | 10—Blade 6 in. Long, with Slim Taper Point, 10 in. Long Over All, Rubberoid Finished Wood Handle, Nickel Plated Ferrule, Weight Per Dozen 2 3/4 Lbs. | Per Dozen |
|-----|--|-----------|
| | | \$2.40 |

One Dozen in a Box.

ICE TONGS

BOSTON PATTERN

Good Grade Steel Points and Bows, Plain Handles, Japanned

| No. | 1203—Opens 14 in., Weight Per Dozen 33 Lbs. | Per Dozen |
|-----|---|-----------|
| | | \$23.00 |

Open Stock.



BUFFALO PATTERN

Tempered Chisel Shaped Steel Points, Strong Steel Bows, Japanned

Special small and narrow solid handle, without swell.

| Nos. | 555 | 555 1/2 |
|---------------------|---------|---------|
| Opens, Inches | 12 | 14 |
| Wt. Per Dozen, Lbs. | 28 | 32 |
| Per Dozen | \$31.50 | 32.00 |

Open Stock.



PHILADELPHIA PATTERN

Narrow Tempered Tool Steel Points, Tool Steel Bows, Solid Swell Handles, Japanned

| Nos. | 547-14 | 547-17 |
|------------------------|---------|--------|
| Opens, Inches | 14 | 17 |
| Weight Per Dozen, Lbs. | 33 | 37 |
| Per Dozen | \$36.00 | 37.00 |

Open Stock.



NUT CRACKERS

IDEAL

Smooth Malleable Iron, Nickel Plated

| No. | 2—Height without Handle 3 3/8 in., Height with Handle 6 3/8 in., Weight Per Dozen 6 Lbs. | Per Dozen |
|-----|--|-----------|
| | | \$7.20 |

Operates quickly and easily, just a quick, easy turn of the handle and the kernel comes out whole. Used for any nut. Will last forever, no levers, springs or clamps. Nothing to wear out or get out of order.

One in a Box.



APPLE PARERS

READING

Cast Iron Frame and Gears,
Lacquered

Per Dozen
No. 78—11 1/2 in. High
Over All, 6 1/2 in.
Gear Wheel, 1 1/4 in.
Adjustable Steel Par-
ing Knife, with Auto-
matic Push-off, Wt.
Dozen 45 Lbs. . . . \$24.00

Works perfectly. All parts
accurately fitted and put
together in the best possible
manner.

One Dozen in a Case.

CHERRY STONERS

DANDY

Heavily Tinned, with
Table Clamp

Per Dozen
No. 70 — Adjustable
for Different Sized
Cherries, Auto-
matic Jaw Adjust-
ment, Weight Per
Dozen 35 Lbs. \$17.00



The Separator Wheel cannot jam, lock or stick, the
Automatic Jaw adjustment feature prevents it.

Unequaled for rapid and effective work. Steel crank
will not break. Separator Wheel can be quickly removed
and easily cleaned.

One in a Box; One-half Dozen in a Case.

FRUIT AND LARD PRESSES

BRIGHTON



For Making Jellies, Wines,
Fruit Syrups, Tinctures,
Lard, Cheese, etc.

A simple, effective, quick
acting Press that will extract
more juice from the fruit
than any other process.

Simple in construction,
easily taken apart and cleaned
and are practically un-
breakable. Screw, side-arms
and all parts subject to
strain are made of steel.

Tinned all over.

To be Screwed to Table or Bench

| | | | |
|------------------------|-------------------|--------------|--------------------|
| Nos. | 2 | 4 | 10 |
| Capacity, Qts. | 2 | 4 | 10 |
| Inches | 24x16 1/2 x13 1/4 | 21x20x17 1/2 | 22 1/4 x13 1/4 x13 |
| Wt. Each, Lbs. | 9 | 20 | 44 |
| Each | \$5.00 | 7.50 | 11.00 |

No. 2, One in a Carton, Six in a Case; No. 4, One in a
Carton, Four in a Case; No. 6, One in a Case.

MEAT AND FOOD CHOPPERS

UNIVERSAL



Nos. 1 and 2.

Turns the left-over pieces of
meat, vegetables, fruits, etc.,
into delicious, nutritious dish-
es. Will chop fine or coarse
as wanted — without mashing
and with great rapidity.

Eliminates waste, cuts down
food bills and saves time and
work. Self-cleaning, self-sharpen-
ing, all parts interchangeable.

Especially machined cutters
are beveled to give a shearlike
cutting edge.

One-piece Cast Iron Frame, Spiral Feed Screw, All Finely
Tinned Each

- No. 0—Small Family Size, Chops 1 1/4 Lbs. Per Minute, 4 1/2 in. High Above Table, Diameter of Hopper 2 1/2 x2 1/2 in., Diameter of Barrel 1 1/2 in., 3 Cutters, Coarse, Medium and Fine, Weight Each 3 1/2 Lbs. \$1.85
- No. 1—Regular Family Size, Chops 2 Lbs. Per Minute, 5 1/2 in. High Above Table, Diameter of Hopper 2 3/4 x3 1/2 in., Diameter of Barrel 2 in., 4 Cutters, Coarse, Medium and Fine and Nut Butter Grinder, Weight Each 4 1/4 Lbs. 2.25
- No. 2—Large Family Size, Chops 2 1/2 Lbs. Per Minute, 6 in. High Above Table, Diameter of Hopper 3 1/4 x3 3/4 in., Diameter of Barrel 2 1/4 in., 4 Cutters, Coarse, Medium, Fine and Nut Butter Grinder, Weight Each 4 3/4 Lbs. 2.75
- No. 3—Hotel and Market Size, Chops 3 Lbs. Per Minute, 7 in. High Above Table, Diameter of Hopper 4x4 1/4 in., Diameter of Barrel 2 1/2 in., 4 Cutters, Very Coarse to Very Fine, Weight Each 8 Lbs. \$3.50

One in a Box, Six in a Case.

STUFFING ATTACHMENTS



Heavily Nickel Plated

One-piece Seamless Brass
Tubing, Spun into Shape.

- Per Dozen
No. 11—7 in. Long, for No. 2 Universal Meat and
Food Choppers, Weight Per Dozen About 4 Lbs. \$ 8.00
- No. 011—7 1/2 in. Long, for No. 3 Universal Meat
and Food Choppers, Weight Per Dozen About
4 1/4 Lbs. 10.00

Open Stock.

GEM



Self-cleaning and self-sharpen-
ing, with reversible Steel Cutters
that cannot break.

Easy to take apart, easy to put
together, easy to adjust, easy to
use, and can be cleaned in a jiffy.

Chops rapidly in uniform pieces
without mashing, tearing or grind-
ing.

With Five Cutters to Pulverize,
Cut Fine, Medium and Coarse, and
to make Nut Butter.

One-Piece Cast Iron Frame, Nicely Tinned

| | | | |
|-----------------------------------|--------|--------|-------|
| Nos. | 20 | 22 | 24 |
| Size | Family | Medium | Large |
| Capacity Per Minute, Lbs. | 2 | 2 1/2 | 3 |
| Diameter Hopper, Inches | 3 1/4 | 4 | 4 1/2 |
| Diameter Barrel, Inches | 2 1/2 | 2 1/2 | 2 1/2 |
| Weight Each, Lbs. | 5 1/4 | 5 1/2 | 8 1/2 |
| Each | \$3.00 | 3.75 | 5.00 |

One in a Box, Six in a Case.

KRAUT CUTTERS

INDIANAPOLIS SANITARY



Maple Frame and Sliding Box

Metal Bed, Triple Pure Block Tinned, Adjustable Tempered Steel Knives, 45 Degree Shear, Keenly Sharpened.

| | | | |
|------------------------|---------|-------|-------|
| Nos. | 642 | 643 | 644 |
| Number of Knives.... | 2 | 3 | 4 |
| Inches | 9x27 | 9x29 | 9x31 |
| Weight Per Dozen, Lbs. | 90 | 100 | 110 |
| Per Dozen | \$32.00 | 36.00 | 42.00 |

One-quarter Dozen in a Carton.

SLAW CUTTERS

T. & D.



White Hard Maple Frame, Hand Finished

Sanitary Metal Bed, Pure Block Tinned, Adjustable Stiff Polished Knives, Forged Wing Nuts.

| | | |
|------------------------|----------------|------------|
| Nos. | 632 | 633 |
| Number of Knives | 2 | 3 |
| Inches | 6 5/8 x 19 1/2 | 6 5/8 x 21 |
| Weight Per Dozen, Lbs. | 30 | 33 |
| Per Dozen | \$18.25 | 23.00 |

One-half Dozen in a Carton.

Clear Hard Maple, Hand Polished



Non-Adhesive Fluted Bed, Adjustable Polished Tempered Steel Knives.

| | | |
|------------------------|--------|----------|
| Nos. | 621 | 622 |
| Number of Knives.... | 1 | 2 |
| Inches | 6x16 | 6x17 1/2 |
| Weight Per Dozen, Lbs. | 25 | 28 |
| Per Dozen | \$6.50 | 8.00 |

One Dozen in a Carton.

CAN OPENERS

PEERLESS

Tempered Outlery Steel Blade, Nickel Plated.

No. 1—6 1/4 in. Long Over All, Black Japanned Handle, Weight Per Dozen 2 Lbs. \$1.35

For round or square cans. Works equally well on top or sides, never slips.

One Dozen in a Display Box.

"SURE CUT"



Nickel Plated Steel Shank, Wood Handle

No. 85—9 in. Long, Two Oil Tempered Steel Cutters, for Square and Round Cans, Milk Bottle Cap Lifter, Weight Per Dozen About 2 Lbs. \$1.60

One Dozen in a Display Box.



Nickel Plated Metal Parts, Black Rubberoid Handle

No. 501—10 in. Long, Two Oil Tempered Steel Cutters, for Square and Round Cans, Milk Bottle Cap Lifter, Weight Per Dozen About 2 1/4 Lbs. \$3.50

One Dozen in a Display Box.

CAN OPENERS

STAR



Cold Rolled Steel, Brass Studs, Nickel Plated

Star—7 in. Long Over All, High Grade Steel Cutting Wheel, Weight Per Dozen 4 1/2 Lbs. \$7.00

Opens round, square, flat, oval or slanting cans. Cuts the whole top off clean without touching hands to can. Permits all of the contents to be removed. Prevents injury. One Dozen in a Display Carton.

DEACON



Malleable Iron, Nickel Plated

Deacon—6 in. Long Over All, Best Tool Steel Knife, Tempered Steel Coil Spring, Weight Per Dozen 3 Lbs. \$7.00

Works like a pair of scissors; cuts off the entire top of either round or square cans.

One Dozen in a Box.

BLUE STREAK



Master Size Heavily Nickel Plated

Each
Master — Highest
Grade Tool Steel
Blade, High
Grade Cold Rolled
Steel Gears, Spin-
dle, Etc., Weight
Per Dozen 19 Lbs.
..... \$2.00

One in a Box, Twelve
in a Display Box.

Hotel Size

Somewhat heavier
in construction than
the Household Size.



Heavily Nickel Plated

Hotel—Housing or Frame of Malleable Iron, High Grade Steel Gears, Spindle, Etc., Highest Grade Tool Steel Blade, Equipped with a Bronze Bushing Reducing Wear, Weight Each 3 Lbs. \$4.00

The Blue Streak removes the entire top of the can cleanly with a very few revolutions of the handle and in such a way as to allow for the contents of the can to be removed whole.

Flange of the can is merely inserted between the cutter and knurled roller, handle turned and top is off—round cans, square cans, oblong cans, flat sardine cans, any shape or size of can.

One in a Box.

SAD IRONS

ASBESTOS LAUNDRY



Nickel Plated Asbestos
Lined Hood

Bottom of Cores
Nickel Plated, Tops
Aluminum Bronzed,
Nickel Plated Asbestos
Lined Steel Stand.

Per Set

No. 70 Set—Consists of 3 Oval Cores with $3\frac{1}{4} \times 6\frac{1}{2}$ in. Face, Each Core Weighs 6 Lbs. (with Hood Attached), 1 Pressed Steel Asbestos Lined Hood with Spring Lock and Black Enameled Wood Handle, and One 6x6 in. Asbestos Covered Steel Stand, Weight Per Set 16 Lbs. \$3.00
One Set in a Carton, Three Cartons in a Case.

MRS. POTTS



Nickel Plated, Aluminum Caps, Hazelwood Handle

Per Set

No. 50 Set—Consists of One Polishing Iron, Weight 4 Lbs., One Iron for General Use, Weight $5\frac{1}{2}$ Lbs., One Iron for Heavy Work, Weight $5\frac{3}{4}$ Lbs., One Handle and One Stand, Weight Per Set About 15 Lbs. \$2.10
Six Sets in a Box.

SAD IRON HANDLES

MRS. POTTS



Hazelwood Handle with Alumin-
um Iron Stretcher

Per Dozen

No. 15—6 in. Long, $3\frac{1}{4}$ in.
High, Fits All Makes of
Mrs. Potts' Sad Irons.
Weight Per Dozen 4 Lbs. \$2.10

One-half Dozen in a Package.

CLOTHES LINES

PLAIN SOLID WIRE

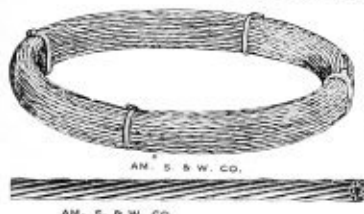


Soft Mild Steel, Heavily Galvanized

Per Dozen

No. 9—9 Gauge, In 100 Foot Coils, Weight Per Dozen
70 Lbs. \$7.00
Open Stock.

TWISTED WIRE



Soft Steel Wires, Heavily
Galvanized, Tightly
Twisted

Per Dozen

No. 20—6-20 Gauge
Wires, 100 ft. in a
Coil, Wt. Per Coil
25 Lbs. \$6.20

Open Stock.

CLOTHES LINES

"BLACKBIRD," SOLID BRAID COTTON



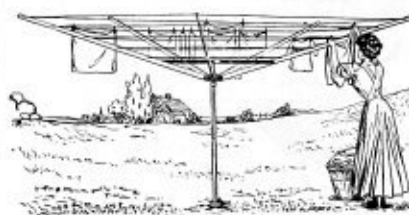
All Cotton, Firmly Braided and Smoothly Finished

Per Dozen

Blackbird—In 50 ft. Hanks, Two Connected, Weight
Per Dozen $8\frac{1}{2}$ Lbs. \$6.60
One Dozen Hanks in a Package.

CLOTHES DRYERS

HILL CHAMPION FOLDING



The Reel is self-
fastening and
locks to post when
in use, and being
made separate, can
be easily removed
when not in use.
The ground socket
is fitted with iron
cover, which can
be closed when
post is taken out.

Painted Selected Wood Arms, Galvanized Steel Tubing
Post, Galvanized Malleable Iron Castings

Each

No. 2—Five 6 ft. Arms, Strung with 115 ft. of Best
Cotton Line, Weight Each About 38 Lbs. \$17.00
One in a Paper Package.

CLOTHES POSTS

DONLEY METAL

Reclaimed Iron Pipe

Each

Donley—2 $\frac{1}{4}$ in. Diameter, 9 $\frac{1}{2}$ ft. Long, with
Cross Cleat Inserted Near Top for At-
taching Clothes Line, Weight Each 34
Lbs. \$2.75
Ornamental Wood Top Extra, .25

Costs less than a wooden post and has every
advantage of strength, neatness and resistance to
weather and rough usage.

Effectually solves the question of a neat, ser-
viceable permanent clothes post, which, when prop-
erly installed, will remain upright for many years.

Usually placed in the ground 2 $\frac{1}{2}$ feet with or
without concrete.

Open Stock.



DOOR MATS

KEYSTONE FLEXIBLE STEEL



Attractive in appear-
ance and never unsight-
ly. Thoroughly braced
in every direction, no
part to wear out, lasts a
life time. Always lies
flat and can never warp
or curl up at the edges.

Galvanized Crimped Flat Ribbon Steel, Hinged Together
with Galvanized Wire Rod, Reinforced Ends

| Nos. | 1 | 2 | 3 | 4 | 7 |
|-------------------|--------|-----------------|-------|-------|-------|
| Inches | 16x24 | 18x30 | 22x36 | 24x42 | 36x60 |
| Weight Each, Lbs. | 5 | 6 $\frac{1}{2}$ | 9 | 14 | 30 |
| Each | \$1.50 | 2.10 | 2.95 | 3.60 | 7.90 |

Open Stock.

O-CEDAR MOPS

"O-Cedar" Mops are made of 5 in. long full cotton yarn, with enameled metal center, amply padded. Equipped with 4 1/2 ft. metal band screw thread handles stained a dark red color; easy to attach or detach.



"TRIANGULAR" POLISHING

Pure Cotton Yarn, Treated with
O-Cedar Polish

Per Dozen
No. 4—Small Size, 4 3/4 in. Base,
Complete, Weight Per Dozen
19 Lbs. \$15.00

"INTERCHANGEABLE" POLISHING

Made with detachable mop pads. Easy to take off and put on. Patented metal clip takes up shrinkage of mop pads in washing.

Pure Cotton Yarn, Treated with
O-Cedar Polish

Per Dozen
No. 1—Medium Size, 7 in.
at Center, Complete,
Weight Per Dozen 23
Lbs. \$15.00



"INTERCHANGEABLE" DUSTING

Pure Cotton Yarn, Dark Red Color, Chemically Treated to
Pick Up and Hold the Dust

Per Dozen
No. 5—Medium Size, 7 in. at Center, Complete,
Weight Per Dozen 16 1/2 Lbs. \$15.00
No. 6—Large Size, 9 in. at Center, Complete, Weight
Per Dozen 19 Lbs. 21.00

One Mop in an Attractive Container; Two Dozen in a
Carton.

O-CEDAR POLISH

Cleans as it Polishes

Quickly produces a rich, dry,
lasting, "Velvet" Lustre, without
any trace of grease or streaks.

The safest and finest Polish for
Pianos, Furniture, Finished Wood-
work and Floors—also for Auto-
mobiles.

Its fine quality is uniform from
the first to the last drop.



Nos. 30 and 60. Nos. 125 to 300.

Per Dozen
No. 30—4 Oz. Bottle, 2 Dozen to Carton, Weight
17 Lbs. \$ 3.60
No. 60—12 Oz. Bottle, 2 Dozen to Carton, Weight
38 Lbs. 7.20
No. 125—1 Quart Can, 1 Dozen to Carton, Weight
27 Lbs. 15.00
No. 200—1/2 Gal. Can, 1 Dozen to Carton, Weight
51 Lbs. 24.00
No. 300—1 Gal. Can, 1/2 Dozen to Carton, Weight
50 Lbs. 36.00

LIQUID VENEER

Makes Old Things Look Like New

Will clean, polish and beautify Pianos, Fur-
niture, Woodwork and Automobiles, in one op-
eration. Leaves no streaks, but removes all
scratches, stains, dirt and dullness and imparts
a beautiful gloss.



Size, Bottle 4 Oz. 12 Oz. 1 Qt.
Dozen in Carton 2 1 1
Weight Carton, Lbs. 23 20 53
Per Dozen \$3.60 7.20 15.00

HANDLED MOPS

STANDARD

Fine Yarn, Full Weight, 52 in.
Selected Ash Handle

Size, Oz. 16 18 20
Wt. Dz., Lbs. 28 30 31
Per Dozen \$7.50 8.40 9.30

Size, Oz. 24 28
Wt. Dozen, Lbs. 34 36
Per Dozen \$11.00 12.60

Size, Oz. 30 32
Wt. Dozen, Lbs. 38 40
Per Dozen \$13.50 14.40

One in a Strong Fiber Bag.



MOP STICKS

Combination Mop and
Brush Holder

The Jaws open up suf-
ficiently to take in large
size brushes. The Teeth
on both Jaws give a firm
and positive grip on the
Mop Cloth.



Household Size Per Dozen

No. 5—Coppered Cast Iron Head and Metal Parts,
5 1/2 in. Jaw, Opened or Closed by Turning the
Thumb Screw, 48 in. Polished Hardwood Handle,
Weight Per Dozen 20 Lbs. \$4.50
One Dozen in a Bundle.

MOP WRINGERS

EAGLE

Selected Louisiana Red Cypress
Pail, Seasoned Maple Rollers,
Malleable Iron Castings



Pail held together by three Elec-
tric Welded Wire Hoops sunk in
grooves, Copper Steel Spring Wire
Springs, Best Quality Stamped
Steel Roller Guides and Foot
Holder.

Per Dozen
No. 10—Domestic Size, Capacity 10 Quarts, 9 in.
High, for Use in the Home, Weight Per Dozen
Crated 150 Lbs. \$28.00
No. 15—Standard Size, Capacity 14 Quarts, 10 1/2
in. High, Designed for Use in Stores, Barber
Shops, Churches, Etc., Weight Per Dozen Crated
180 Lbs. 32.00
No. 20—Janitor Size, Capacity 22 Quarts, 12 1/2 in.
High, Designed for Use in Railroad Stations,
Public, State and Government Buildings, Hotels,
Etc., Weight Per Dozen Crated 225 Lbs. 40.00
Nos. 10 and 15, One-third Dozen; No. 20, One-quarter
Dozen in a Crate.

WINDOW CLEANERS OR
SQUEEGES

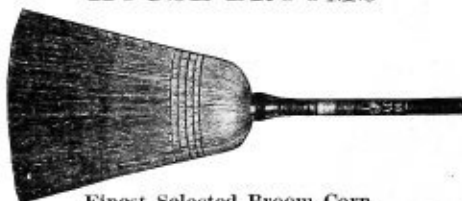
X-L-C-R

Galvanized Iron Frame, Japanned
Sheet Steel Socket Handle,
Double Pure Gum Rubber

Nos. 112 114 116
Length, Inches 12 14 16
Weight Per Dozen, Lbs. 6 7 1/2 9
Per Dozen \$5.40 6.00 7.00

One Dozen in a Box.

HOUSE BROOMS



Finest Selected Broom Corn

Five Seams, Sewed with Colored Thread, Tin Lock, No. 1 Plain Finish Handle.

| | | | | |
|------------------------|----------------|----|----|----|
| Nos. | 3 | 4 | 5 | 6 |
| Weight Per Dozen, Lbs. | 26 | 28 | 30 | 32 |
| Per Dozen | On Application | | | |

One Dozen in a Bundle.

WAREHOUSE BROOMS
LAY

Metal Case, Metal Band, Twine Sewing, Strong Hardwood Handle

Highest Quality, Long Wearing Brooms.

Rattan Mixed with Finest Illinois Broom Corn, for Rough Floors

| | | | |
|------------------------|---------|-------|-------|
| Nos. | 225 | 226 | 227 |
| Weight Per Dozen, Lbs. | 30 | 36 | 42 |
| Per Dozen | \$12.00 | 13.20 | 15.60 |

All Best Illinois Broom Corn, for Smooth Floors

| | | | |
|------------------------|---------|-------|-------|
| Nos. | 325 | 326 | 327 |
| Weight Per Dozen, Lbs. | 30 | 36 | 42 |
| Per Dozen | \$12.00 | 13.20 | 15.60 |

First Grade Bamboo Fibre Mixed with Best Illinois Broom Corn, for Factory Floors

| | | | |
|------------------------|--------|-------|-------|
| Nos. | 425 | 426 | 427 |
| Weight Per Dozen, Lbs. | 30 | 36 | 42 |
| Per Dozen | \$9.72 | 10.80 | 12.96 |

One Dozen in a Bundle.

WHISK BROOMS

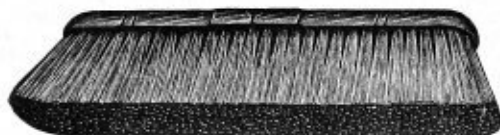
Medium Grade Corn



| | | |
|--------|-----------------------|-----------|
| Nos. | 3—2 Sew, Hurl Handle, | Per Dozen |
| | Tin Cap, Weight Dozen | |
| 3 Lbs. | | \$9.00 |

One Dozen in a Bundle.

FLOOR BRUSHES



Palmetto Center Row, Gray Tampico Next Two Rows, Black Horse Hair Casing, Yellow Block, Two Threaded Handle Holes, 4 1/2 ft. Polished Handle

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Nos. | 914 | 916 | 918 | 920 | 924 |
| Block, Inches | 14 | 16 | 18 | 20 | 24 |
| Length Stock, Inches | 3 1/4 | 3 1/4 | 3 1/4 | 3 1/4 | 3 1/4 |
| Weight Dozen, Lbs. | 21 | 24 | 27 | 30 | 36 |
| Per Dozen | \$27.00 | 30.00 | 33.00 | 36.00 | 42.00 |

One in a Carton.

GARAGE

Palmyra Fibre, Wire Fastened, Natural Varnished Block, Two Handle Holes, 4 1/2 ft. Plain Handle

| | |
|--|---------|
| Joe—16 in. Block, Stock 4 in. Long, Weight Per Dozen | |
| Dozen About 26 Lbs. | \$24.00 |
| One in a Carton. | |

PUSH BROOMS

BASS

Genuine African Bass, Solid Hardwood Block, 4 1/2 Ft. Handle

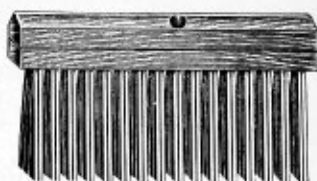
| | |
|--------------------------|---------------|
| No. 1126—14x3 1/2 in. | Per Dozen |
| Block, 5 Rows, 5 1/4 in. | |
| Stock, Weight Per Dozen | About 55 Lbs. |
| Open Stock. | \$16.00 |



STEEL WIRE

Flat Tempered Steel Wire, Two-Piece Hardwood Block, 4 1/2 ft. Handle

| | |
|---|-----------|
| No. 1001—12x2 3/4 in. | Per Dozen |
| Block, 4 Rows, Length of Wire 5 in., Wt. Doz. | |
| About 40 Lbs. | \$12.00 |
| Open Stock. | |



PUSH BROOM HANDLES

Hardwood, Tapered End, Smoothly Sanded

| | |
|---|-----------|
| No. 45—4 1/2 ft. Long, Weight Per Dozen 15 Lbs. | Per Dozen |
| Open Stock. | \$2.00 |

FEATHER DUSTERS

"OUT-O-DUST"



Brown Selected Turkey Tail Feathers

Reinforced Cuff, Steel Ferrule, Rubberoid Finish Handle.

Feathers attached to a short wide head, making a flexible duster with wide dusting surface.

| | | |
|--------------------|---------|-------|
| Nos. | 80 | 83 |
| Length, Inches | 16 | 18 |
| Number of Feathers | 150 | 200 |
| Per Dozen | \$38.26 | 57.42 |

Average Weight Per Dozen 20 Pounds.

One in a Sealed Envelope, One-half Dozen in a Carton.

WOOL DUSTERS

"ROYAL BLUE"

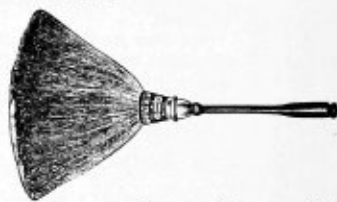
Blue Wool, Extra Heavy Nickel Ferrule, Reinforced Cuff, Rubberoid Finish Handle.

The finest duster made and will outwear all others. Washable in soap and water, or gasoline. Absorbs dust and will not scratch.

| | | | | |
|-----------------------|---------|-------|-------|-------|
| Nos. | A | B | C | D |
| Length, Wool, Inches | 8 | 9 | 10 | 11 |
| Length Handle, Inches | 8 | 8 | 9 1/2 | 9 1/2 |
| Per Dozen | \$30.40 | 38.40 | 48.00 | 57.60 |

Average Weight Per Dozen 9 Pounds.

One Dozen in a Carton.



"HOLTS"

Assorted Bright Colors, Black Enameled Handle

For all Dusting, Washable, Absorbs Dust and will not scratch.



| | | |
|-----------------------|---------|-------|
| Nos. | 2 | 6 |
| Length Wool, Inches | 8 | 10 |
| Length Handle, Inches | 10 | 12 |
| Per Dozen | \$18.92 | 32.68 |

Average Weight Per Dozen 5 Pounds.

One Dozen in a Carton.

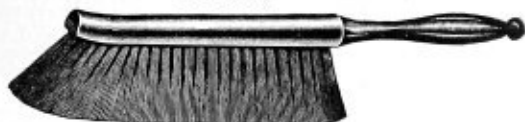
COUNTER OR BENCH BRUSHES

INDUSTRIAL



Mixed Gray Hair, Heavily Filled, Wire Fastened, Natural Polished Block
 Industrial—8 in. Long, 2½ in. Stock, Weight Per Dozen
 Dozen 4 Lbs. \$12.00
 One-half Dozen in a Carton.

CAPTAIN



Mixed Gray Fibre, Wire Fastened, Red Polished Block
 Captain—8 in. Long, 2½ in. Stock, Weight Per Dozen
 6½ Lbs. 6.80
 One-half Dozen in a Carton.

STEEL WIRE BRUSHES

WISCO

Strong and durable and have many uses. They are adapted to painters' use in removing old paint, varnish, etc., from wood, stone and metal; for cleaning architectural iron work, marble, etc., and for varied uses in the home.



HANDY BRUSH

For use on metal and painted surfaces where a narrow brush is required.

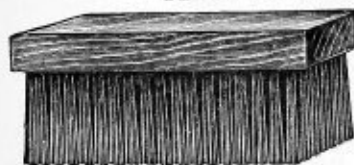
Best Quality, Fine Carbon Steel Wire Per Dozen
 No. 1641—4 Rows, Length of Wire 1½ in., Solid Wood Block, 1 in. Wide, Length Over All 10 in., Weight Per Dozen 4½ Lbs. \$8.00
 One Dozen in a Carton.

BRAZIERS BRUSH



Best Quality Fine Carbon Steel Wire Per Dozen
 No. 1651—3x19 Rows, Length of Wire 1½ in., Solid Wood Block, ½ in. Wide, Length Over All 13 in., Weight Per Dozen 5 Lbs. \$6.00
 Extensively used as a brazier's brush. Also suitable for brushing and cleaning castings, mouldings, etc. Will do the work of coarse sand paper.
 One Dozen in a Carton.

PAINTERS SCRUB BRUSH



Best Quality Fine Carbon Steel Wire Per Dozen
 No. 1611—6x19 Rows, Length of Wire 1½ in., 7¼ x 2¼ in. Block, Wt. Dozen 9¼ Lbs. \$8.00
 One Dozen in a Carton.

Best Quality Fine Carbon Steel Wire

No. 1632—Curved Face, 9x21 Rows, 1½ in. Wire, 7x3 in. Block, Weight Dozen 9¼ Lbs. \$12.00
 One Dozen in a Carton.



BUTCHER BLOCK BRUSHES



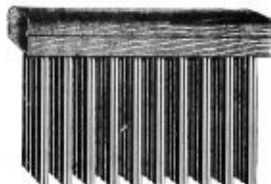
Flat Tempered Steel Wire

Per Dozen
 No. 1801—5x10 Rows, 1¼ in. Wire, 2½ x 7¼ in. Solid Hardwood Block, Weight Dozen 9½ Lbs. \$4.35
 One Dozen in a Carton.

WIRE CASTING BRUSHES

Flat Tempered Steel Wire

Wire is securely fastened in to solid hardwood block with steel wire pins.



| | | | |
|------------------------|---------|---------|---------|
| Nos. | 1734 | 1736 | 1737 |
| No. of Rows..... | 4 | 4 | 5 |
| Length Wire, Inches... | 2 | 3 | 4 |
| Block, Inches | 7¾ x 2¼ | 7¾ x 2¼ | 7¾ x 2½ |
| Weight Per Dozen, Lbs. | 11 | 11½ | 12 |
| Per Dozen | \$5.00 | 5.50 | 8.00 |

Open Stock.

CHRISTMAS TREE HOLDERS



CROWN

Cast Iron, Japanned, Gold Striped

Per Dozen
 No. 2—For Trees Up to 2 in. Diameter, Wt. Per Dozen 38 Lbs. \$12.00

No. 3—For Trees Up to 3 in. Diameter, Wt. Per Dozen 70 Lbs. 20.00

A tree holder that has withstood the test of practical use for years. Holds the tree firmly and securely.

One in a Carton.

BRIGHTON

Cast Iron, Japanned, Ornamented with Gold

Per Dozen
 No. 50—For Trees from 1 to 4 in. in Diameter, with Three Set Screws and Centering Device which Holds the Tree Secure and Perpendicular, Wt. Per Dozen 50 Lbs. \$10.00
 Made solid so that water can be placed in it, which keeps the tree fresh and green for quite a long time.
 One Dozen in a Case.



NESCO SAFETY

Stamped Sheet Metal, Japanned Green

Per Dozen
 No. 15—14½ x 3½ in., Wt. Per Case 20 Lbs. \$15.00

Tree held firmly in socket by three braces on trunk. Water in pan serves as weight and keeps tree fresh and green.

One-half Dozen in a Case.



WATER PAILS

WOOD



Selected Clear Virginia Cedar, Painted Outside

Three Electric Welded Wire Hoops, Wire Bail with Wood Grip.

Per Dozen
No. EH-1—Capacity 11 Quarts, Top Inside 11½ in. Diam., Bottom Inside 8¾ in. Diam., Inside Depth 7½ in., Weight Per Dozen 35 Lbs. \$18.00

One-half Dozen in a Bundle.

CORDLEWARE

Indurated Fibre, Seamless, Mahogany Leather Finish, Coppered Steel Wire Bail, Wood Grip

Per Dozen
Star—Capacity About 12 Qts., 11 in. Diameter Top, 9½ in. Deep, Weight Per Dozen 44 Lbs. \$9.00



Per Dozen
No. 14—Capacity About 14 Qts., 11½ in. Diameter Top, 10 in. Deep, Weight Per Dozen 50 Lbs. \$15.00

Especially adapted for handling acids, dyes, and food products. It is a non-conductor of electricity or heat, it is seamless, water-proof, noiseless, rustless, taint and odor proof and virtually indestructible.

It will not shrink or swell. Has no hoops to drop off or rust. Has none of the objectionable rattle and bang of a metal pail or collapse of staves in a wooden pail. Does not require paint or varnish to preserve it.

One-half Dozen in a Carton.



GALVANIZED

Plain

| | | |
|---------------|-----------|-----------|
| Nos. | 102 | 122 |
| Quarts . . . | 10 | 12 |
| Inches . . . | 10½ x 8¾ | 11 x 10 |
| Wt. Dz., Lbs. | 21 | 25 |
| Per Dozen . . | \$5.60 | 6.15 |
| Nos. | 142 | 162 |
| Quarts . . . | 14 | 16 |
| Inches . . . | 11½ x 10¼ | 11½ x 10½ |
| Wt. Dz., Lbs. | 27 | 30 |
| Per Dozen . . | \$6.90 | 8.35 |

One Dozen in a Bundle.

CEMENT PAILS

HERCULES GALVANIZED

Double Extra Heavy, Double Braced Bottom, without Hoop

No. 14
Trade Capacity, Qts. 14
Inches . . . 11½ x 10½
Weight Dozen, Lbs. 80
Per Dozen . . . \$24.00

One-half Dozen in a Bundle.



JANITORS PAILS

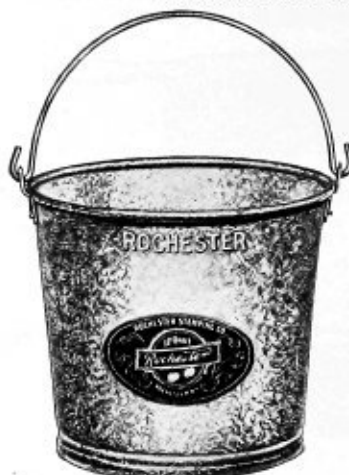
ROCHESTER GALVANIZED

Extra Heavy 4X Iron, Straight Pattern, ¾ in. Wire Bail

Per Dozen
No. 5614 — Capacity 14 Qts., 10¼ in. High, 11¼ in. Diameter Top, 9¼ in. Diameter Bottom, Weight Per Dozen 48 Lbs. \$12.00

Galvanized by the Hot Dipped Process after being made up from black sheets.

One Dozen in a Bundle.



HORSE PAILS

"J. I. C."

Can be used for any purpose where a strong, durable pail is required.

Bottom is so constructed as to come flush with bottom of staves.

Wrought Ears and Side Straps are securely fastened with Rivets.

Selected Oak, Finished and Var-nished, Heavily Ironed

Per Dozen
J. I. C.—Capacity 15 Quarts, 3 Heavy Iron Hoops, Iron Bail and Strap Ears, Depth 9¾ in., Diameter Top 11½ in., Weight Per Dozen 90 Lbs. \$24.00

One-half Dozen in a Bundle.



REPAIR HOOPS

BOSTWICK ADJUSTABLE



Black Steel, For Pails, Tubs and Barrels

Per Dozen
No. 2B—¾ in. Wide, 78 in. Long, Weight Per Dozen About 12 Lbs. \$2.40
No. 4B—1½ in. Wide, 80 in. Long, Weight Per Dozen About 20 Lbs. 3.40

Easy to put on, require no rivets. Are adjustable to any circumference within their length and expand and contract with the tub.

Two Dozen in a Case.

PAIL AND KETTLE EARS

Wrought Steel, Tinned

| | | |
|-----------------|---------|---------|
| Nos. | 20 | 30 |
| Inches . . . | 1½ x 1¼ | 1½ x 1½ |
| Wt. Gro., Lbs. | 2 | 2¾ |
| Per Gross . . . | \$1.40 | 1.70 |
| Nos. | 40 | 50 |
| Inches . . . | 1½ x 1¾ | 1¾ x 2 |
| Wt. Gro., Lbs. | 3¼ | 4½ |
| Per Gross . . . | \$2.40 | 3.80 |
| Nos. | 60 | |
| Inches . . . | 2 x 2¼ | |
| Wt. Gross, Lbs. | 6 | |
| Per Gross . . . | \$4.60 | |

One Gross in a Box.



No. 30.

FIRE PAILS

CORDLEWARE



Indurated Fibre, Seamless, Mahogany Leather Finish, Round Bottom, Galvanized Steel Wire Bail, Wood Grip

Per Dozen
No. 12-F—Capacity About
12 Qts., 11½ in. Deep,
10¾ in. Diameter Top,
Weight Per Dozen 48
Lbs. \$15.00

Will outlast more than twice as long, pails made of any other material. Metal pails rust and wood pails shrink and smell, destroying the hoops.

One-half Dozen in a Carton.

GALVANIZED

Plain, Round Bottom

| | |
|-------------------------------|--------|
| No. | 212 |
| Trade Capacity, Quarts. | 12 |
| Actual Capacity, Quarts. | 10½ |
| Inches | 11x10¼ |
| Dozen in Bundle. | 1 |
| Weight Bundle, Lbs. | 22½ |
| Per Dozen | \$7.95 |



COAL HODS

GALVANIZED

Open, Plain Body, Round Bottom, Half Oval Japanned Bail

| | | |
|----------------------|---------|-------|
| Nos. | 517 | 518 |
| Inches | 17 | 18 |
| Wt. Dozen, Lbs. | 34 | 38 |
| Per Dozen. | \$10.00 | 10.90 |

One-half Dozen in a Bundle.



CUSPIDORS

SEAMLESS DRAWN STEEL

Low, Broad Base, Raised Bottom, Enameled Green

Sanitary and easily cleaned, practically impossible to tip over.

Per Dozen
No. 3—9½ in. Diam., 4 in. High, Wt. Dozen 31 Lbs. \$9.50
One Dozen in a Carton.



CAST IRON

Sanitary, Removable Top, White Enameled Inside, Painted Maroon Outside and Striped.

Per Dozen
No. 69—8 in. Diameter at Top, 4 in. High, Wt. Dozen 90 Lbs. \$17.00

Open Stock.



CUSPIDORS

CAST IRON

Broad Top, White Enameled Inside, Painted Maroon Outside

Per Dozen
No. 67—9½ in. Diameter Top,
6½ in. High, Weight Per
Dozen 100 Lbs. \$15.00
Open Stock.



WATERING POTS



Galvanized, Wide Spout, Removable Rose

Can be used as a Radiator Filling Can.

| | | |
|---------------------|---------|-------|
| Nos. | 614 | 616 |
| Quarts. | 4 | 6 |
| Wt. Doz., Lbs. | 32 | 38 |
| Per Dozen. | \$12.00 | 13.50 |

| | | | | |
|-------------------------|---------|-------|-------|-------|
| Nos. | 618 | 620 | 622 | 626 |
| Quarts. | 8 | 10 | 12 | 16 |
| Weight Dozen, Lbs. | 46 | 50 | 55 | 67 |
| Per Dozen | \$16.00 | 18.50 | 21.00 | 25.75 |

One-half Dozen in a Case.

FUNNELS

Pieced, IC Tin, Fluted Spout, with Ring



| | | | | |
|------------------------|--------|-----|------|------|
| Nos. | 15 | 20 | 30 | 35 |
| Trade Cap., Qts. | ¼ | 1 | 2 | 4 |
| Inches | 3½ | 4½ | 6¼ | 8 |
| Dozen in Case. | 30 | 30 | 12 | 15 |
| Weight Case, Lbs. | 33 | 41 | 37 | 50 |
| Per Dozen. | \$0.68 | .87 | 1.80 | 2.42 |

GASOLINE FUNNELS

DOVER

Heavily Copper Plated, Fine Brass Wire Strainer

The Standard Gasoline Funnel for general use.

The Spout of the Funnel is large and fluted and will not become air bound in the ordinary size tank opening.



| | | | | |
|----------------------------|---------|---------|---------|---------|
| Nos. | 277-10T | 277-20T | 277-40T | 277-80T |
| Capacity, Quarts. | 1 | 2 | 4 | 8 |
| Diameter Top, Inches. | 5 | 8½ | 9¾ | 12 |
| Height, Inches. | 6¾ | 9½ | 11 | 12½ |
| Weight Dozen, Lbs. | 17 | 33 | 42 | 54 |
| Per Dozen | \$12.00 | 13.20 | 16.80 | 19.80 |

Three Dozen in a Case.

OIL AND GASOLINE MEASURES

DOVER COMBINATION MEASURE AND FUNNEL

Copper Plated, with Lip



| | | |
|------------------------|---------|-------|
| Nos. | 05 | 010 |
| Capacity, Quarts. | ½ | 1 |
| Bottom, Inches. | 3¼ | 4 |
| Height, Inches. | 6 | 8 |
| Wt. Dozen, Lbs. | 6½ | 11½ |
| Per Dozen. | \$8.40 | 10.80 |
| Nos. | 020 | 040 |
| Capacity, Quarts. | 2 | 4 |
| Bottom, Inches. | 5 | 6½ |
| Height, Inches. | 10¼ | 12½ |
| Wt. Dozen, Lbs. | 18¾ | 24 |
| Per Dozen. | \$12.60 | 15.00 |

Nos. 05 and 010, Six Dozen; Nos. 020 and 040, Four Dozen in a Case.

OIL MEASURES

BROOKINS, ALL-IN-ONE



Notice the practical features of the Brookins All-In-One Measure.

Measure—A one or two quart Standard.

Flexible Metal Spout—Can be placed in any position.

Valve—Under control of thumb lever at all times.

Spring—To keep valve closed unless held open by thumb lever.

Rigid Hook—To keep spout up against measure, when not in use, to prevent dripping.

Copper Plated

| | | |
|-----------------------------|---------|-------|
| Nos. | 1 | 2 |
| Capacity, Quarts | 1 | 2 |
| Weight Per Dozen, Lbs. | 20 | 23 |
| Per Dozen | \$36.00 | 42.00 |

Two Dozen in a Package.

WAGON MEASURES

NEW DOVER

So built and braced that it will prove extremely durable and at the same time be light to handle.

The body is heavily reinforced with three bands and a new sunken arch bottom, which is indestructible. The new bail is reinforced with a wood boss and steel. The front of the neck is strengthened with a steel band.

Accurate as to measure and guaranteed not to leak.

Painted Red



Each

| | |
|--|--------|
| No. 277-300M—Capacity 5 Gallons, 10% in. Diameter Bottom, 4 in. Diameter Pouring Neck, 20 1/2 in. High, Weight Per Case 60 Lbs. | \$9.00 |
| Six in a Case. | |

GARAGE FILLERS

DOVER



Heavy Steel, Heavily Galvanized with Blue Stripes

Each

| | |
|---|--------|
| No. 277-15R—Capacity 5 Gallons, 11 1/4 in. Diameter, 17 in. High, 4 1/2 in. Filler Opening, 1 1/2 in. Spout Opening, Weight Per Case 60 Lbs. | \$3.50 |
|---|--------|

Can be filled from a tank, hose or faucet without spattering and may be poured into a funnel very fast without spilling.

Six in a Case.

RADIATOR FILLERS

NEW DOVER

Heavy Steel, Galvanized

Each

| | |
|---|--------|
| No. 277-260R—Capacity 3 Gallons, 9% in. Diameter, 11 1/2 in. High, 1 1/2 in. Spout Opening, Wt. Per Case 40 Lbs. | \$2.50 |
|---|--------|

Especially designed for garage, filling station and fleet owners. Guaranteed not to leak.

Six in a Case.



OILY WASTE CANS

NEW DOVER SAFETY



Heavy Steel Galvanized After Formed

Heavy seamless cover cannot open over 60 degrees and cannot be propped open with the bail. Non-breakable feet, bottom raised 3 1/2 in. from the floor.

Inspected and labeled by the Underwriters' Laboratories, Inc.

| | | | | |
|--------------------|--------|------|------|------|
| Nos. | 2 | 3 | 4 | 5 |
| Cap., Gals. | 8 | 10 | 16 | 19 |
| Diam., In. | 15 | 15 | 18 | 19 |
| Height, In. | 19 1/4 | 22 | 23 | 25 |
| No. in Case. | 3 | 3 | 1 | 1 |
| Wt. Cs., Lbs. | 65 | 70 | 31 | 37 |
| Per Dozen | \$5.50 | 6.65 | 8.00 | 9.00 |

JUSTRITE

Works automatically; to raise cover press lever with foot, closes automatically. Lever can also be used as a handle in carrying can. Always leaves both hands free. For the factory, printer, machine shop or garage. Underwriters' label on all cans.



Galvanized Sheet Steel, 24 Gauge Body, 22 Gauge 1/2 in. Band Iron Legs and Foot Lever

| | | | |
|--------------------------------|-------------|-------------|-------------|
| Nos. | 1 | 2 | 3 |
| Capacity, Gals. | 6 | 8 | 10 |
| Inches | 11 3/4 x 13 | 12 1/2 x 14 | 13 1/2 x 15 |
| Height from Floor, Inches | 4 | 4 | 4 |
| Weight Each, Lbs. | 11 | 13 | 15 |
| Each | \$4.00 | 4.50 | 5.00 |

Open Stock.

WASTE RECEPTACLES

HYGEIA AUTOMATIC



Conveniently and sanitarly serves its purpose in the home, in the nursery, bath and sick room and in the kitchen as a Slop Jar.

It meets the exacting requirements of Doctor and Dentist and is to be found in Hospitals, Public Institutions, First Aid and Rest Rooms.

Cover opens and closes automatically by pressure on Foot Pedal. Cover easily detaches from Frame so Pail with Cover on may be lifted free for emptying.

Handle on pail may be used for carrying complete receiver, both pail and frame.

Heavy Stamped Steel Base, Steel Frame, Heavy Stamped Steel Cover, White Enamelled, Armco Rust Resisting Metal Pail.

| | |
|--|--------|
| No. H—Capacity 4 Gals., 12 in. Diameter, 16 1/2 in. High, Weight Each 12 Lbs. | \$8.00 |
|--|--------|

One in a Carton.



WASTE RECEPTACLES

SOLAR SELF-CLOSING



Attractive, Convenient, Sanitary and Fireproof

Wherever litter and refuse must be disposed of, there is a use and a need for a Solar Self-Closing Receptacle.

Simple and perfect in operation with no complicated mechanism and nothing to wear out. Only the highest grade materials and workmanship go into its production.

Easy to Use, Easy to Empty

Two outstanding features place the Solar in a class all by itself.

The Self-Closing Top swings open at a touch to receive deposits, yet is always closed when

not in use. It is a real protection against fire, an automatic guard to sanitation.

The method of removing the contents is the other outstanding feature. Removable inner containers of suitable forms for various kinds of litter and refuse afford an easy means of removing the contents without touching them, efficient, clean and convenient.

Nos. 5 and 10 are furnished with 25 paper bags, No. 15 with a removable galvanized can and No. 30 with one burlap bag.

Heavy Gauge Steel, Green Enameled

| Nos. | 5 | 10 | 15 | 30 |
|----------------------|--------|---------|---------|-------|
| Base, Inches | 9x9 | 11½x11½ | 11½x11½ | 16x16 |
| Height of Body, In. | 13 | 17¼ | 34 | 25½ |
| Height Over All, In. | 17½ | 23¼ | 40 | 33¾ |
| Weight Each, Lbs. | 11 | 20 | 40 | 45 |
| Each | \$6.60 | 7.20 | 11.00 | 11.50 |

White Enameled

| Nos. | 5-W | 10-W | 15-W | 30-W |
|------|--------|------|-------|-------|
| Each | \$7.20 | 7.75 | 12.00 | 13.25 |

One in a Corrugated Cardboard Carton.

UNDERGROUND GARBAGE RECEIVERS

MAJESTIC

Top consists of Cast Iron Ring, Lid and Foot Lever. Both the lid and the ring are hinged to the shell.

Always out of sight—underground—where flies and vermin can't get at it and where dogs can't upset it. It is sanitary and odorless, handy and convenient.

A slight pressure on the foot trip raises the lid.

Keystone Copper Steel Shell, Solid Bottom, Heavy Plain Galvanized Garbage Can



| Nos. | 15 | 20 |
|------------------------|---------|-------|
| Capacity Can, Gallons | 15 | 20 |
| Diameter Shell, Inches | 15 | 19 |
| Depth Shell, Inches | 25 | 26 |
| Weight Each, Lbs. | 60 | 80 |
| Each | \$11.40 | 14.70 |

EXTRA PLAIN CANS

For Majestic Garbage Receivers

| Nos. | 15-C | 20-C |
|-------------------|--------|------|
| Weight Each, Lbs. | 16 | 22 |
| Each | \$3.50 | 4.50 |

One in a Carton.

ASH OR GARBAGE CANS

KING

Extra Heavy, Corrugated, Galvanized



Extra Heavy Black Steel, Hot Galvanized After Being Made Up. Lock Seamed, Securely Riveted Reinforcing Hoops, Straight Edge Corrugations, Seamless Bottom, Seamless Tight Fitting Cover, Drop Side Handles.

| Nos. | 1 | 2 | 3 |
|----------------|--------|------|------|
| Cap., Gals. | 19 | 27 | 37 |
| Diam., In. | 15 | 18 | 21 |
| Height, In. | 29 | 29 | 29 |
| Wt. Each, Lbs. | 25 | 32 | 38 |
| Each | \$4.80 | 5.30 | 6.70 |

Open Stock.

WINTON

High Grade Galvanized Steel, Top and Bottom Striped in Red

Deeply Corrugated, Seamless Bottom and Cover, Side Drop Handles Riveted On,



Each

No. 117—Capacity 20 Gallons, 17½ in. Diameter, 24 in. High, Weight Each 12½ Lbs. \$2.50

Open Stock.

KEYSTONE

Hot Galvanized, Corrugated

Heavy Sheet Steel, Deeply Corrugated, Seamless Cover and Bottom, Drop Side Handles Riveted on.

| Nos. | 12 | 13 |
|----------------|--------|------|
| Cap., Gals. | 18 | 23 |
| Diam., In. | 15½ | 17½ |
| Height, In. | 22 | 22 |
| Wt. Each, Lbs. | 14 | 16 |
| Each | \$4.00 | 4.50 |

Open Stock.

GARBAGE PAILS

KING

Heavy, Corrugated, Galvanized, with Bail

24 Gauge Black Cold Rolled Steel Throughout, Hot Galvanized After Being Made Up, Seamless Cover and Bottom.

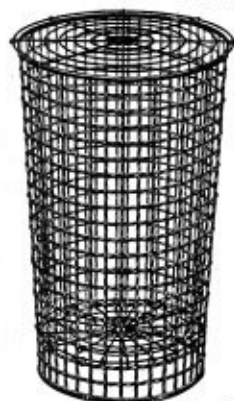


| Nos. | 7 | 8 | 9 |
|-------------------|--------|------|------|
| Capacity, Gallons | 5 | 7 | 9 |
| Diameter, Inches | 11½ | 13 | 14½ |
| Height, Inches | 12¾ | 12¾ | 12¾ |
| Weight Each, Lbs. | 9 | 10 | 11 |
| Each | \$1.80 | 2.00 | 2.20 |

Open Stock.

RUBBISH BURNERS

CYCLONE "CATCH-ALL"



A Combination Waste Paper Container and Rubbish Burner

Is also used extensively for storing fruits and vegetables. Keeps contents off floor and allows free circulation of air.

Made of heavy crimped wire, 1 1/2 in. Square Mesh, electrically welded. Wire Cover and Bottom.

Baked Green Enamel Finish

No. 2 — 29 in. High, 16 in. Diameter Bottom, 20 in. Diameter Top, Wt. Each 14 1/2 Lbs. \$3.25
Six in a Bundle, Nested.

ASH SIFTERS

HILL ROTARY

Galvanized Iron, Heavy
Galvanized Wire Cylinder Sieve

No. 1—Fits a Can 18 in. in Diameter or a Flour Barrel, Holds a Hod Full of Ashes, Wt. Each 25 Lbs. \$7.00

No. 2—Fits a 20 in. Can or a Sugar Barrel, Holds Twice as Much as No. 1, Wt. Each 32 Lbs. 9.00

Sifts the coal clean without dust or dirt. Is easily operated and gives universal satisfaction.

Two in a Crate.



ASH PIT OR CLEANOUT DOORS



Cast Iron, Japanned

No. 2—12 1/2 x 14 1/2 in. Frame, 9 1/2 x 11 1/2 in. Door, 9 1/2 x 11 1/2 in. Opening, 1 1/2 in. Flange on Under Side, Weight Each 14 Lbs. \$2.25

Three in a Bundle.

FLUE OR CHIMNEY RING

Cast Iron

| | | |
|--------------------------------------|--------|-------|
| Inside Diam., Inches. | 4 | 5 |
| Flange, Inches | 1 1/2 | 3/4 |
| Width Under Flange, Inches | 2 1/2 | 2 1/2 |
| No. in a Bundle | 12 | 12 |
| Weight Each, Lbs. . . . | 1 1/2 | 2 |
| Each | \$0.16 | .25 |

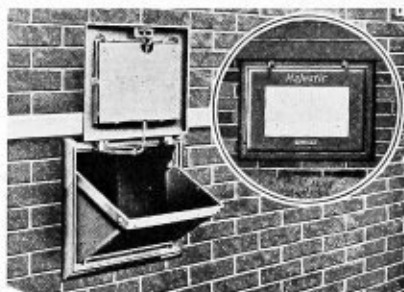
| | | | | |
|------------------------------------|--------|-------|-------|-----|
| Inside Diameter, Inches | 6 | 7 | 8 | 9 |
| Flange, Inches | 3 1/2 | 4 1/2 | 5 1/2 | 1 |
| Width Under Flange, Inches | 2 1/2 | 2 1/2 | 2 1/2 | 3 |
| No. in a Bundle | 12 | 12 | 12 | 6 |
| Weight Each, Lbs. | 2 1/2 | 3 1/2 | 3 1/2 | 6 |
| Each | \$0.27 | .34 | .38 | .78 |



COAL WINDOWS AND COAL CHUTES

MAJESTIC BREAK-PROOF

Majestic Break-Proof Coal Windows and Chutes have Keystone Copper Steel Bodies and Hoppers. Bodies Reinforced with Angle Iron. Certified Malleable Iron Frame and Hinges. The Patent Hinge holds the door open and protects the building above when coal is delivered. When closed, the gravity latch automatically locks the door flush with the foundation. It can be unlocked from the inside only, from anywhere in the basement or from the room above by simply extending the latch chain.



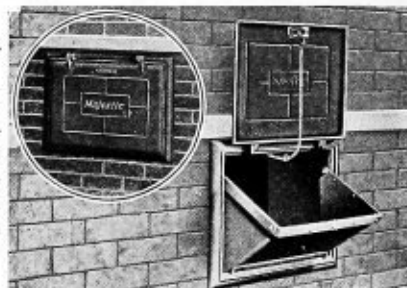
Certified Malleable Iron Door Fitted with Wire Glass Panel

The 1/4 in. wire glass panel is protected by a steel shield when open. When closed, the shield lies flat in the bottom allowing daylight to enter the coal bin. Body has a sloping bottom. Equipped with chain to latch.

No. M-10-A—With Hopper, Wall Opening 24 in. Wide, 17 in. High, 12 in. Deep, Wt. Each 63 Lbs. \$15.75

Solid Pressed Copper Steel Door Electro Galvanized

Body has a sloping bottom and is reinforced at top with angle iron. Equipped with chain to latch.



No. M-101-B.

No. M-101-B—With Hopper, Wall Opening 24 in. Wide, 17 in. High, 12 in. Deep, Wt. Each 52 Lbs. \$12.00

Solid Pressed Copper Steel Door, Electro Galvanized
Same as the No. M-101-B but with straight bottom; without hopper and latch chain.

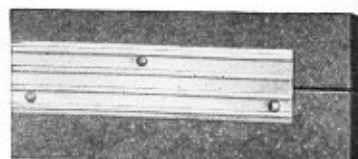
No. M-500—Without Hopper, Wall Opening 24 in. Wide, 17 in. High, 9 in. Deep, Wt. Each 35 Lbs. \$9.00

LINOLEUM SEAM BINDING



Embossed Brass

No. 16—3/8 in. Wide, 30 Gauge, for Covering Seams in Linoleum, Etc., Weight Per Box 5 1/4 Lbs. \$3.75
50 Yards in a Box, with Nails.



Embossed Brass

No. 17—3/8 in. Wide, 30 Gauge, for Covering Seams in Linoleum, Etc., Wt. Per Box 4 1/4 Lbs. \$3.00

50 Yards in a Box, with Nails.

STOVE BOARDS

CRYSTALLIZED



Selected Coke Tin Plate

Crystallized excepting the design, which is bright finished, outlined in black, covered with highest grade Baking Varnish producing a beautiful silver effect.

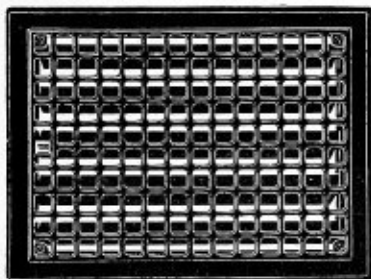
No. 9—Square, Heavy Red Express Paper Lined

| | | | |
|------------------------|---------|-------|-------|
| Size, Inches | 24x24 | 26x26 | 28x28 |
| Weight Per Dozen, Lbs. | 34 | 39 | 45 |
| Per Dozen | \$12.00 | 12.50 | 14.00 |
| Size, Inches | 30x30 | 32x32 | 35x35 |
| Weight Per Dozen, Lbs. | 52 | 59 | 70 |
| Per Dozen | \$16.00 | 18.50 | 24.00 |

One Dozen in a Case.

REGISTERS

REGULAR FLOOR, WROUGHT STEEL



No. 200J—Registers, Black Japanned

| | | | | | |
|--------------------|--------|------|-------|-------|-------|
| Floor Opening, In. | 8x10 | 9x12 | 10x12 | 10x14 | 12x15 |
| Wt. Each, Lbs. | 4 1/4 | 5 | 5 3/4 | 7 | 9 |
| Each | \$1.65 | 2.10 | 2.40 | 3.15 | 4.50 |

No. 250J—Face Plates, Black Japanned

| | | | | | |
|--------------------|--------|-------|-------|-------|-------|
| Floor Opening, In. | 8x10 | 9x12 | 10x12 | 10x14 | 12x15 |
| Wt. Each, Lbs. | 2 | 2 1/4 | 2 1/2 | 3 1/2 | 4 1/2 |
| Each | \$1.10 | 1.45 | 1.70 | 2.20 | 2.90 |

No. 200W—Registers, White Japanned

| | | | | | |
|--------------------|--------|------|-------|-------|-------|
| Floor Opening, In. | 8x10 | 9x12 | 10x12 | 10x14 | 12x15 |
| Wt. Each, Lbs. | 4 1/4 | 5 | 5 3/4 | 7 | 9 |
| Each | \$2.00 | 2.55 | 2.90 | 3.80 | 5.40 |

No. 250W—Face Plates, White Japanned

| | | | | | |
|--------------------|--------|-------|-------|-------|-------|
| Floor Opening, In. | 8x10 | 9x12 | 10x12 | 10x14 | 12x15 |
| Wt. Each, Lbs. | 2 | 2 1/4 | 2 1/2 | 3 1/2 | 4 1/2 |
| Each | \$1.45 | 1.90 | 2.20 | 2.85 | 3.80 |

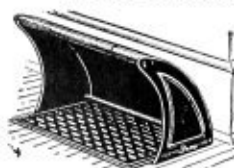
Dimensions

Correspond in size with the Standard Cast Iron makes. Have a Uniform Depth Open of 2 1/8 in., Closed 1 1/2 in.

| | | | |
|-----------------------|-----------------|-----------------|-----------------|
| Floor Opening, Inches | 8x10 | 9x12 | 10x12 |
| Face Over All, In. | 9 3/4 x 11 3/4 | 10 7/8 x 13 3/8 | 11 1/8 x 13 1/8 |
| Floor Opening, Inches | 10x14 | 12x15 | |
| Face Over All, Inches | 11 1/8 x 15 3/8 | 13 1/8 x 17 | |

One in a Box.

GEM REGISTER SHIELDS



Model No. 1.



Model No. 2.

For Warm Air Furnace Registers, Oxidized Copper Finish Adjustable from 10 to 19 in. to Fit Any Size Register.

| | |
|---------------------------|-------------|
| No. 1—For Floor Registers | Each \$1.50 |
| No. 2—For Wall Registers | Each .75 |

STOVE POKERS

STOVER



Straight

Per Dozen

| | |
|---|--------|
| No. 100—20 in. Long, 1/4 in. Diameter Rod, Coiled Wire Handle with Ring, Nickel Plated, Weight Per Dozen 5 1/2 Lbs. | \$1.50 |
| No. 140—24 in. Long, 3/8 in. Diameter Rod, Coiled Wire Handle with Ring, Nickel Plated, Weight Per Dozen 11 Lbs. | 2.25 |

One Dozen in a Box.

FIRE SHOVELS

"NEVERBREAK"



Forged Steel, Japanned

Hollow Hand Grip Prevents Heating, Blade and Handle Forged from One Piece of High Grade Bar Steel.

| | | |
|-------------------------|---------|---------|
| Nos. | NF-10 | NF-16 |
| Scoop, Inches | 8x5 1/2 | 8x5 1/2 |
| Length Over All, Inches | 18 | 24 |
| Weight Per Dozen, Lbs. | 18 | 20 |
| Per Dozen | \$6.50 | 7.00 |

JUMBO



Stamped Sheet Steel, Black Baked Enamel

Per Dozen

| | |
|--|--------|
| No. 2—Scoop 5 in. Wide, 2 1/2 in. Deep, Length Over All 21 in., Weight Per Dozen 11 Lbs. | \$2.25 |
|--|--------|

Handle is covered and reinforced, scientifically correct and equal to a burden ten times the shovel capacity. Strengthening corrugations at the mouth increase the capacity of the shovel. A real fire shovel suited to every purpose, holds twice as much as an ordinary shovel.

FULTON



Stamped Sheet Steel, Black Japanned

Round Handle, Corrugations at Mouth of Scoop.

Per Dozen

| | |
|---|--------|
| No. 3—Scoop 4 1/2 in. Wide, 1 1/2 in. Deep, Length Over All 19 1/2 in., Weight Per Dozen 8 Lbs. | \$1.25 |
|---|--------|

Stamped Sheet Steel, Black Japanned

Flat Handle, Corrugations at Mouth of Scoop.

Per Dozen

| | |
|---|--------|
| No. 6—Scoop 4 1/2 in. Wide, 1 in. Deep, Length Over All 14 1/2 in., Weight Per Dozen 4 Lbs. | \$0.75 |
|---|--------|

All Above, Open Stock.

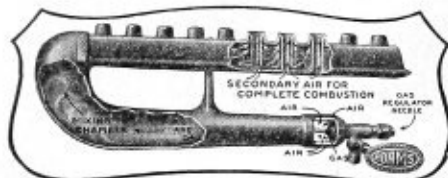
RADIANT HEATERS

ADAMS CHEERFUL, GAS

"It's All in the Adams Patented Central Draft Burner"

Suction produced by gas passing from the needle valve draws air into the mixing chamber, where the air and gases are thoroughly mixed. As this mixture passes out of the burner tips, and burns, additional air is drawn into the flame through the central draft flues, assuring complete combustion.

There are no screens, small gas or air passages to become obstructed and interfere with continuous proper combustion.



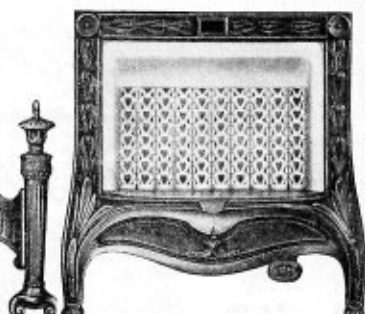
Antique Brass Finish

Each

No. 9—10 Radiants, 24 in.
High, 35 in. Wide, 8 in.
Deep, Shipping Weight
Each 65 Lbs.....\$72.00

Especially suited for large fireplace openings. Delicate refinement of detail results in an article of superior beauty both in design and finish.

One in a Case.



Bronze Finish

Each

No. 10—10 Radiants, 22 in.
High, 22 in. Wide, 7 in.
Deep, Shipping Weight
Each 56 Lbs.....\$33.50

Well designed and constructed of high grade cast iron throughout. A beautiful and highly efficient heater.

One in a Case.



Antique Brass Finish

Each

No. 4—10 Radiants, 21 in.
High, 23 in. Wide, 7 in.
Deep, Shipping Weight
Each 59 Lbs.....\$41.25

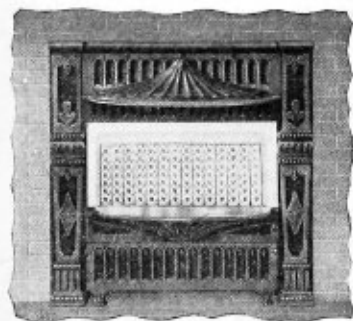
Statuary Bronze Finish

Each

No. 4-SB—Same as No. 4, Except for Finish.....\$41.25

Cast metal construction throughout. An extremely beautiful design, it is the most popular of all Cheerful Radiant Heaters.

One in a Case.



Antique Bronze Finish

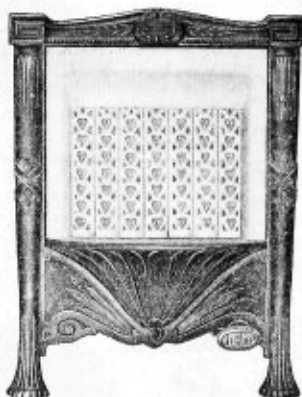
Each

No. 6—10 Radiants, 30 1/4 in.
High, 24 1/2 in. Wide, 4 1/2 in.
Deep, Maximum Opening 24x30 in., Minimum
Opening 20x26 1/2 in., Shipping
Weight Each 107
Lbs.\$57.00

No. 7—14 Radiants, 30 1/4 in.
High, 30 1/2 in. Wide, 4 1/2 in.
Deep, Maximum Opening 30x30 in., Minimum
Opening 24x26 1/2 in., Shipping
Weight Each 128
Lbs.67.00

Built-in fireplace grates are excellent replacement units for asbestos fronts, etc. On new work, they save the cost of tile work in opening. Easily installed.

One in a Case.



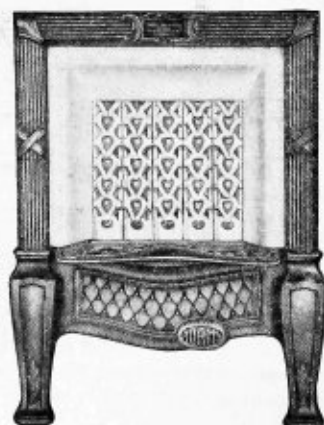
Bronze Finish

Each

No. 11—7 Radiants, 21 1/2 in.
High, 16 1/4 in. Wide, 7 in.
Deep, Shipping Weight
Each 45 Lbs.....\$21.75

A small size of Cheerful Radiant Heater of the same general construction as the larger heater. Highly efficient and pleasing in design.

One in a Case.



Nickel Plated, Polished

Each

No. 00—5 Radiants, 18 in.
High, 14 in. Wide, 7 in.
Deep, Shipping Weight
Each 28 Lbs.....\$17.25

A small, efficient Adams Cheerful Radiant Heater of cast iron construction.

One in a Case.

RADIANT HEATERS

ADAMS CHEERFUL, GAS

White Porcelain Enamel Finish

No. 5—Fine Radiants, 19 in. High, 14 in. Wide, 4 in. Deep, Wall Opening 18 1/4 in. High, 3 in. Wide and 4 in. Deep, Shipping Weight Each 34 Lbs. \$24.00

Designed for installation in a recessed wall opening. Extensively used and is especially suited for bathroom.

One in a Case.

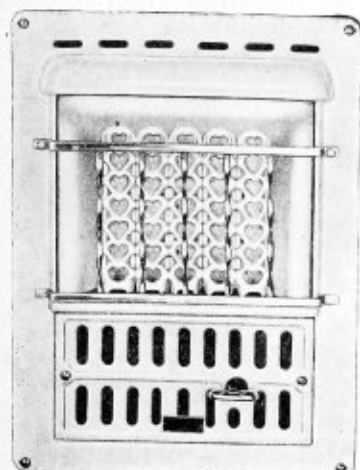
ADAMS CHEERFUL, ELECTRIC

White Porcelain Enamel Finish

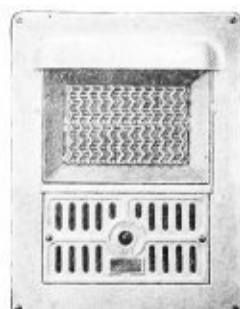
No. 13-E—For 110-120 Volts, 1300 Watts, Wall Opening 16 1/4 in. High, 13 in. Wide and 4 in. Deep, Shipping Weight Each 28 Lbs. \$28.75

Ideal for use in bathroom. Rugged in construction with all the heating element perfectly supported and protected. All parts easily accessible.

One in a Case.



No. 5



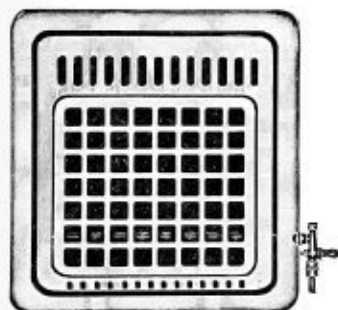
No. 13-E.

Each

GAS HEATERS

For Natural or Manufactured Gas

REZNOR WALL-HANG TYPE



White Porcelain Enamel Finish

No. 32 — 16 1/2 in. Wide, 17 in. High, 4 1/4 in. Deep, Shipping Weight Each 18 Lbs. \$15.00

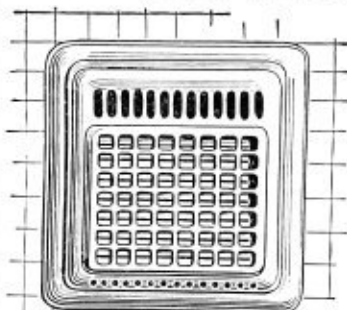
Hangs like a picture on any wall in any room where a nail or screw can be driven. It is designed for use in bedrooms, bathrooms, halls or wherever floor space is limited. It radiates instant, comfortable and satisfying warmth wherever and whenever it is wanted.

May be attached permanently or used as a portable and carried easily from room to room. It is designed with ample air space to give safe insulation against overheating of the wall where it is hung.

The Reznor Yellow Flame Burner converts all gas into heat. There is no odor, no carbon monoxide or danger from "lighting back."

One in a Crate.

REZNOR WALL-INSERT TYPE



White Porcelain Enamel Finish

No. 33 — 16 1/2 in. Wide, 17 in. High, 5 in. Deep, Shipping Weight Each 29 Lbs. \$20.00

Designed for use in bedrooms and bathrooms where floor space is limited. It can be placed in any wall which has a depth of four inches or more and is guaranteed to be absolutely safe.

To reduce weight, wall strain and breakage, the front of the heater is made of 18 gauge deep drawing enameling steel which takes a beautiful finish. Valve is so arranged that the maximum flow of gas can be regulated, and when turned on full, the flame cannot extend beyond the front.

One in a Crate.

REZNOR GLOWARM PORTABLE

Sheet Iron, Black Japanned, Nickel Plated Corner Pieces and Legs.

Top, Front and Sides are made of a specially selected Rust-resisting 26 Gauge Sheet Iron. Flame Plate and Back are made of 24 and 26 Gauge Refined Iron. Corner Pieces and Legs are of very heavy Stamping Stock. The Reflector is made entirely of solid 10 ounce Copper. Aluminum Burner Tips cannot come out. Valve is made so maximum flow of gas can be regulated to prevent flame from extending beyond front of heater. Guard is 18 Gauge Black Japanned Expanded Metal. Three inch full connection on all sizes except No. 110.

| Nos. | 110 | 121 | 142 | 153 | 164 | 175 | 126 | 137 |
|--------------|--------|-------|--------|--------|-------|--------|-------|--------|
| Height, In. | 18 | 19 | 21 3/4 | 21 3/4 | 23 | 23 1/2 | 24 | 26 3/4 |
| Width, In. | 11 | 12 | 14 | 18 1/2 | 21 | 23 | 30 | 34 1/2 |
| Depth, In. | 7 3/4 | 9 1/4 | 9 1/2 | 9 1/2 | 9 1/2 | 9 5/8 | 11 | 12 |
| Shipping Wt. | | | | | | | | |
| Each, Lbs. | 6 1/4 | 8 1/4 | 11 1/2 | 14 | 15 | 17 | 22 | 30 |
| Each | \$4.00 | 5.00 | 6.00 | 7.50 | 9.00 | 10.50 | 12.00 | 15.00 |

One in a Crate.



GAS HEATERS

REZNOR GLOWARM PORTABLE

For Natural or Manufactured Gas



Sheet Metal, Black
Baked Japan, Nickel
Plated Corner Pieces
and Legs

Body of heater is all electrically welded together. The legs are heavy stamping steel bolted to body through corners.

Valve is arranged so maximum flow of gas can be regulated.

3 in. flue connection in all sizes.

| Nos. | 201 | 204 | 205 |
|----------------------------|--------|-------|------|
| Height, Inches | 16 | 16 | 18 |
| Width, Inches | 11 | 14 | 18 |
| Depth, Inches | 9 1/2 | 9 3/4 | 10 |
| Shipping Weight Each, Lbs. | 7 | 8 1/2 | 11 |
| Each | \$4.00 | 5.00 | 6.50 |

| Nos. | 206 | 210 | 213 |
|----------------------------|--------|--------|-------|
| Height, Inches | 18 | 20 | 20 |
| Width, Inches | 22 | 25 1/2 | 30 |
| Depth, Inches | 10 3/4 | 10 3/4 | 11 |
| Shipping Weight Each, Lbs. | 13 1/2 | 18 | 20 |
| Each | \$8.00 | 9.50 | 11.00 |

A plain and inexpensive but a thoroughly efficient and excellent appliance in every way.

One in a Crate.

REZNOR "FLICKER" PORTABLE

For Natural or Manufactured Gas

Best Grade Blue Steel, Nickel
Plated Legs

Has a rat-tail burner, with 14 aluminum tips. Burns a yellow flame, full protected by heavy guard in front. Baffle plate directs flame toward rear near top. A double back, forming large air space between flame and back of heater. This prevents overheating of back and increases hot air circulation.



Each

| | |
|--|--------|
| No. 0—15 in. High, 13 in. Wide, 5 in. Deep, Weight | |
| Per Carton 28 Lbs. | \$2.50 |
| Six in a Carton. | |

GAS STOVE CONNECTIONS

"SAFETY FIRST"



Lead Pipe with Brass Union and Bushing

3/8 inch Male Thread on Bushing End, 1/4 inch Male and 1/8 inch Female Thread on Union End.

| Length, Inches | 12 | 18 | 24 | 36 | 48 | 60 |
|-------------------|--------|-----|-----|--------|--------|--------|
| Weight Each, Lbs. | 7 1/2 | 11 | 14 | 18 1/2 | 22 1/2 | 28 1/2 |
| Each | \$0.50 | .55 | .60 | .70 | .90 | 1.10 |

Can be bent to any shape. Make a safe and convenient connection.

Open Stock.

GAS HEATERS

REZNOR PORTABLE GARAGE

For Natural or Manufactured Gas



Heavy Sheet Iron, Black Baked Japan

Burns a yellow flame, and having no mixer is free from the danger of lighting back.

Can be used with perfect safety without a flue connection, although one is provided.

Has no pilot or other complicated lighting arrangement to get out of order.

Has a larger heating capacity for its size than any heater made. It is 100 per cent efficient.

| Nos. | 27 | 35 |
|----------------------------|---------|--------|
| Height, Inches | 27 1/2 | 28 1/2 |
| Length, Inches | 26 | 32 1/2 |
| Depth, Inches | 9 1/2 | 9 1/2 |
| Shipping Weight Each, Lbs. | 35 | 46 |
| Each | \$18.00 | 21.00 |

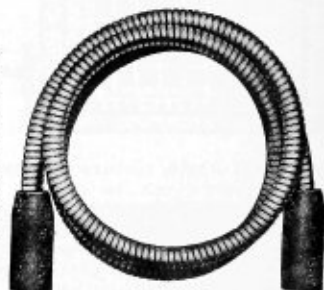
These heaters are designed for use in automobile garages, but are especially well adapted for use in public buildings where space is first consideration. The above two heaters will heat up to 4700 and 7500 cubic feet of air space respectively. They can be placed close to the wall and a car run within three inches of the heater without danger of scorching.

One in a Crate.

GAS TUBING

AMERICAN FLEXIBLE STEEL

In the manufacture of this Tubing, Quality is the first consideration. Rubber Tubing deteriorates with age and becomes leaky. American Flexible Steel Tubing is the safest and most durable Gas Tubing on the market.

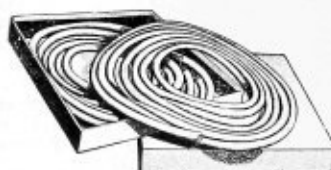


3/8 in. I. D., Rubber Ends Attached

| Length, Feet | 3 | 4 | 5 | 6 |
|-------------------------|--------|-----|-----|-----|
| Weight Per Length, Lbs. | .31 | .38 | .45 | .52 |
| Per Length | \$0.25 | .30 | .35 | .40 |

Open Stock.

RUBBER



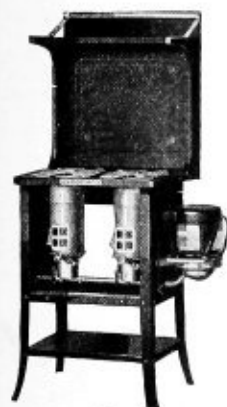
First Quality Red Rubber, Cloth Inserted, 3 Ply

| Diameter, Inches | 3/8 |
|----------------------|--------|
| Weight Per Box, Lbs. | 6 1/2 |
| Per Foot | \$0.08 |

50 Feet in a Box.

OIL COOK STOVES

PERFECTION



No. 72.

The most popular and largest selling line of all stoves on the market and without question the greatest value.

The Perfection Burner—Scientific in construction, giving ease of operation, a clean, quick heating flame, durability and dependability.

Chimney—New "Cobalt Blue", a permanent, tough, lustrous, vitreous enamel, does not easily chip, or craze, nor readily show stain.

Straight-Leg Frame—Similar in strength and beauty of design to the higher priced stoves.

Square Grates—Provide greater cooking space for pots and pans and increase cooking speed by allowing a larger volume of heat to reach the cooking.

Cooking Top—Roomy and at most comfortable height from the floor.

New Base Shelf—Stiffens the stove and furnishes a handy, out of the way place for utensils.

Built-In Tray—Beneath burners, "rounded out" for ease in cleaning.



No. 73.

Black Japanned Heavy Pressed Steel Frame, Legs and Lower Base Shelf, Without Warming Cabinet

No. 72—2 Burners, 24 $\frac{1}{8}$ x 17 in. Cooking Top, 32 $\frac{1}{8}$ in. Long Over All, 17 in. Deep Over All, 32 in. High Over All, Weight Each Crated 45 Lbs. \$26.25
One in a Crate.

No. 73—3 Burners, 34 $\frac{3}{8}$ x 17 in. Cooking Top, 42 $\frac{3}{8}$ in. Long Over All, 17 in. Deep Over All, 32 in. High Over All, Weight Each Crated 55 $\frac{1}{2}$ Lbs. \$33.75
One in a Crate.

WARMING CABINETS ONLY

Black Japanned, Nickel Plated Trimmings

No. 72-JWC—For No. 72 Stove, 24 $\frac{1}{8}$ in. Long Over All, 10 $\frac{1}{8}$ in. Deep, 24 $\frac{1}{8}$ in. High, Weight Each Crated 17 Lbs. \$8.00
No. 73-JWC—For No. 73 Stove, 34 $\frac{3}{8}$ in. Long Over All, 10 $\frac{1}{8}$ in. Deep, 24 $\frac{1}{8}$ in. High, Weight Each Crated 22 Lbs. 9.75
One in a Crate.

White Porcelain Enameled Splasher, Black Japanned Ends and Top, with Nickel Plated Trimmings

No. 73-EWC—For No. 73 Stove, 34 $\frac{3}{8}$ in. Long Over All, 10 $\frac{1}{8}$ in. Deep, 24 $\frac{1}{8}$ in. High, Weight Each Crated 22 Lbs. \$15.75
One in a Crate.

OIL HEATERS

PERFECTION

Clean, odorless and economical. Radiate heat in all directions, spreading warmth to all corners. Burn 10 hours on one gallon of kerosene.

New Gravity Catch—Positive in action with exclusive double safety feature; operates similarly to the door of an enclosed automobile. Supplies a convenient handle with which to tip back drum, and improves appearance of the heater.

Inner Wick Tube—Lock-seamed and soldered to reservoir body and cannot possibly leak, even if overheated.

Filler Cap Hinge—Improved, insuring an accurate and tight fitting cap.

Floor Tray—Black japanned, lifts with heater.

Oil Indicator—Cannot be fastened in place incorrectly.

Patent Wick Guide—Keeps the lower portion of the wick submerged in the oil. The wick will use the last drop of oil in the fount. This is a feature exclusive with the Perfection Oil Heaters.



No. 1525.

Polished Steel Upper Drum, Black Japanned Lower Drum and Trimmings, Lead Coated Steel Reservoir

No. 1525—24 $\frac{1}{8}$ in. High, 12 $\frac{1}{8}$ in. Diameter, Four Legs, Weight Each Crated 16 Lbs. \$11.25
One in a Crate.

Polished Steel Upper Drum, Black Japanned Lower Drum, Nickel Plated Trimmings, Lead Coated Steel Reservoir

No. 1530—24 $\frac{1}{8}$ in. High, 12 $\frac{1}{8}$ in. Diameter, Four Legs, Weight Each Crated 16 $\frac{1}{2}$ Lbs. \$13.50
One in a Crate.



No. 1530.

OIL COOK STOVE WICKS

PERFECTION

With Metal Carrier

No. 331—For Perfection Oil Cook Stoves, Highest Quality Cotton, Ready to Light, Wt. Each About 1 $\frac{1}{4}$ Lbs. \$0.50
One in a Carton, Twelve in a Box.



OIL HEATER WICKS

PERFECTION

With Metal Carrier

No. 500—For All Perfection Oil Heaters, Highest Quality Cotton, Ready to Light, Weight Each About $\frac{3}{8}$ Lbs. \$0.65
One in a Carton, Twelve in a Box.



GASOLINE LAMPS

"NULITE" PORTABLE

Light with a Match, No Other Generating Required



Brass, Nickel Plated

Each

No. 110-M—400 Candle Power, Capacity of Fount 3 Pints, Burns About 18 Hours on One Filling, 22 in. High Over All, Equipped Complete with a 10 in. Diameter Fancy Embossed White Shade, Two Rag Mantles, Straight Removable Generator, Wrench, Pump, Tip Cleaner, Extra Rubber Washer and Full Instructions, Weight Each Complete About 10 Lbs. \$15.35

Make their own gas from gasoline and give a bright, white, steady light of 400 candle power. They are safe in any position, no danger if upset. Can't spill fuel or explode. No wicks to trim—no chimneys to clean. Always clean, neat and attractive in appearance.

By test, they give stronger light, a greater quantity and more efficient, effective illumination of better quality at the least cost.

One in a Box.

GASOLINE LANTERNS

"NULITE STORM PROOF"

Light with a Match, No Other Generating Required

Brass, Nickel Plated, Mica Chimney with Built-In Pump

Each

No. 3-M—400 Candle Power, Capacity of Fount 1 Quart, Burns 12 to 14 Hours on One Filling, 13 in. High Over All, Equipped Complete with Two Rag Mantles, Straight Removable Generator, Wrench, Tip Cleaner, Extra Rubber Washer and Full Instructions, Weight Each Complete About 6 Lbs. \$15.00

Built to withstand the hardest use under the most trying weather conditions. Unaffected by high wind, rain, snow or sleet, it can be carried right through the fiercest storm.

In use everywhere by farmers, campers, builders, plumbers, watchmen, auto tourists, etc.

One in a Box.



MANTLES

"NULITE"

Best Grade Fabrics and Chemicals

Per Dozen

No. 1-B—Small High Power Mantle for No. 110-M Lamp and No. 3-M Lantern, Reinforced Shadowless Bottom, Wt. Dozen 1½ Oz. \$2.00

One Dozen in a Box, One Dozen Boxes in a Counter Display Carton.



LANTERNS

DIETZ COLD BLAST

Special Features—Dietz Security Standing Bail, Patent Brass Eyelets, Patent Safety Burner, Patent Positive Locking Globe Lift, Large Oil Filler with Wired Filler Cap and Double Seamed Solderless Dome Shape Oil Fount. Where Needed to Protect the Lift Mechanism from Strain, these Lanterns have Specially Braced Lift Guides.

"BLIZZARD"

Bright Tin, with "Blizzard Fitzall Loc-Nob" Globe

Gives a Light of 10 Candle Power, Wing-Lock Cone Burner, 1 in. Wick.

Per Dozen

No. 2—Plain Globe, 14¼ in. High, Burns 20 Hours on One Filling, Shipping Weight Per Dozen 38 Lbs. \$20.00

No. 2-R—Ruby Globe, Otherwise Same as No. 2. 23.10

Signify the best to be had in large size lanterns of the High-Globe, Cold Blast Type.

The "Loc-Nob" positively prevents the globe from slipping out of the retaining guard when tipped back.

One-half Dozen in a Case.



"D-LITE"

Bright Tin, with Short "D-Lite Loc-Nob" Globe

Gives a Light of 10 Candle Power, Wing-Lock Cone Burner, 1 in. Wick.

Per Dozen

No. 2-D—Plain Globe, 13¼ in. High, Burns 20 Hours on One Filling, Shipping Weight Per Dozen 37 Lbs. \$20.00

No. 2-DR—Ruby Globe, Otherwise Same as No. 2-D. 23.10

In height, "D-Lite" Lanterns are no greater than common Hot Blast Lanterns, yet give almost three times the light.

One-half Dozen in a Case.



"LITTLE WIZARD"

Bright Tin, with Short "Little Wizard Loc-Nob" Globe

Gives a light of 6 Candle Power, Wing-Lock Cone Burner, 5/8 in. Wick.

Per Dozen

No. LW—Plain Globe, 11½ in. High, Burns 20 Hours on One Filling, Shipping Weight Per Dozen 24 Lbs. \$13.50

No. LWR—Ruby Globe, Otherwise Same as No. LW. 16.60

The little lantern with the big light. Popular with Boy Scouts, Campers, Hikers, Contractors, etc.

One Dozen in a Case.



"JUNIOR"

Bright Tin, with "Junior Loc-Nob" Globe

Gives a Light of 6 Candle Power, Wing-Lock Cone Burner, 5/8 in. Wick, Plain Globe.

Per Dozen

Junior—12 in. High, Burns 15 Hours on One Filling, Shipping Weight Per Dozen 24 Lbs. \$13.50

Combines minimum weight and bulk with maximum lighting power.

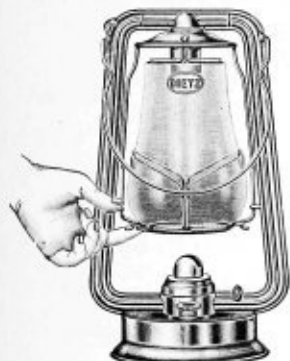
One Dozen in a Carton.



LANTERNS

DIETZ HOT BLAST

Special Features—Dietz Standing Bail, Patent Brass Eyelets, Patent Safety Burner, Patented Positive-Locking Globe Lift, Large Oil Filler with Non-Loseable Cap and Double Seamed, Solderless Oil Fount.



"HY-LO"

These lanterns are in great demand wherever public works, railroads, sewers, dams, etc., are under construction and for general use on the farm. The simple globe lift construction and low price make them thoroughly capable for the work.

Bright Tin, with "Fitzall Loc-Knob" Globe

Gives a Light of 4 Candle Power, Patented Steel Hinged Cone Burner, $\frac{5}{8}$ in. Wick.

Per Dozen

Hy-Lo—Plain Globe, 13 $\frac{1}{2}$ in. High, Burns 20 Hours on One Filling, Shipping Weight Per Dozen 27 Lbs. \$12.50

Hy-Lo-R—Ruby Globe, Otherwise Same as Above. 15.60
One Dozen in a Case.

WAGON LANTERNS

DIETZ "JUNIOR" COLD BLAST

Heavy Tin, Black Enameled, with Plain "Junior Loc-Nob" Globe

Gives a Reflected Light of 10 Candle Power, Wing-Lock Cone Burner, $\frac{5}{8}$ in. Wick.

Per Dozen

Junior—12 in. High, Burns 13 Hours on One Filling, 2 $\frac{1}{4}$ in. Ruby Rear Lens, 2 $\frac{1}{4}$ in. Magnifying Bulls-Eye Lens, Shipping Weight Per Dozen 42 Lbs. \$27.00



Complies with all Night Driving Laws. A combination holder permits use of a flat or round bracket. Packed regularly with flat bracket and furnished with clip spring holder as illustrated in addition to combination socket.

One-half Dozen in a Case.

PARKING AND DRIVING LANTERNS

DIETZ "EUREKA"

Cold Rolled Steel, Black Enameled, Nickel Plated Door Rim, Wing-Lock Cone Burner, $\frac{5}{8}$ in. Wick

Per Dozen

Eureka—7 $\frac{1}{2}$ in. High, Burns 10 Hours on One Filling, 2 $\frac{1}{4}$ in. Ruby Rear Lens, 3 $\frac{1}{2}$ in. Plain Door Lens, Shipping Weight Per Dozen 25 Lbs. \$27.00

Ideal for any kind of vehicle, and complies with all Night Driving Laws. The smallest practical vehicle light made. Also used as an automobile parking lamp.

A bail permits the use of the "Eureka" as a hand lantern.

Packed with Style "A" Holder as illustrated. One Dozen in a Case.



RAILROAD LANTERNS

DIETZ "STANDARD"

For Signal Oil



Bright Tinned Steel, gives a Light of 2 Candle Power, Extra Special Screw Ratchet Burner, 1 in. Wick, Plain Heat Resisting "Vulcan" Globe.

Per Dozen

No. 39—10 in. High, Burns 24 Hours on One Filling, Shipping Weight Per Dozen 43 Lbs. \$28.50

Made with a solid metal bell bottom and inside oil pot, which cannot drop out. Substantial round wire guard protects the globe. Globe and loose oil pot lift in and out when the top of the lantern is turned back on its hinge. Outside wick raiser.

A well balanced dependable signaling lantern.

One Dozen in a Case.

GASOLINE WALL TORCHES

LINDEMAN ANCHOR

Japanned Leaded Steel Plate Tank, Brass Globe Valve and Generating Burner, Malleable Iron Safety Hanger

Per Dozen

No. 1—Single Burner, Capacity of Tank 1 Gallon, Weight Per Dozen 50 Lbs. \$30.00

These Torches are extensively used and unequalled for lighting public meeting places, camping and picnic grounds, tents, dance halls, factories, warehouses, mining, lumber and contractor's camps, etc.

They are widely used by showmen, Street Fakirs, Auctioneers, Fishermen, etc.

Simple in operation, easily kept clean, latest and highest improved construction.

Open Stock.



PYRAMID MILL TORCHES

WALL "EVERLASTING"

Brazed Steel

Made from Heavy Steel. A stout, durable, desirable Torch that will outlast twenty made of galvanized iron.

For Factories, Foundries, Rolling Mills, Blast Furnaces, Construction Work, etc.



| Nos. | 81 | 82 | 83 | 84 | 85 |
|--------------------|------------------|------------------|-------|-------|------------------|
| Capacity, Quarts.. | $\frac{1}{2}$ | 1 | 1 | 2 | 2 |
| No. of Burners... | 1 | 1 | 2 | 1 | 2 |
| Weight Dozen, Lbs. | 11 $\frac{1}{4}$ | 16 $\frac{1}{2}$ | 18 | 21 | 25 $\frac{1}{2}$ |
| Per Dozen | \$9.00 | 10.00 | 12.00 | 12.00 | 14.00 |

Open Stock.

TORCH WICKS

For Pyramid Mill Torches

Per Pound

Torch Wicks— $\frac{5}{8}$ in. Diameter Braided Cotton \$1.00

Twenty-five Yards in a Coil.

MINERS LAMPS

JUSTRITE MINERS CAP



Wire Feed, Round Hook, with
Lighter Attachment

2 1/4 in. Diameter, Concave Reflector, Burns 2 1/2 Hours on One 2 oz. Charge of Carbide and Gives a Light of 16.7 Candle Power. Net Weight Each 5 oz.

Drawn Brass, Polished

Per Dozen

No. 85—3 3/4 in. High, 2 in. Diameter Bottom, with
No. 77 Carbide Can, Weight Per Dozen 6 Lbs. \$15.00

One Dozen in a Carton.

Polygon Feed, Round Hook, with
Lighter Attachment

2 3/4 in. Diameter, Concave Reflector, Burns 2 1/2 Hours on One 2 oz. Charge of Carbide and Gives a Light of 16.7 Candle Power. Net Weight Each 5 oz.

Drawn Brass, Polished

Per Dozen

No. 704—3 3/4 in. High, 2 in. Diameter Bottom, with
No. 77 Carbide Can, Weight Per Dozen 6 Lbs. \$13.80

One Dozen in a Carton.



JUSTRITE SUPERINTENDENTS



Wire Feed, Double Wire Handle, with
Lighter Attachment and Flame
Protector

2 3/4 in. Diameter Deep Concave Reflector, Burns 2 1/2 Hours on One 2 oz. Charge of Carbide. Net Weight Each 6 oz.

Drawn Brass, Nickel Plated

Per Dozen

No. 100—3 3/4 in. High, 2 in. Diameter Bottom, with
No. 77 Carbide Can, Wt. Per Dozen 6 1/2 Lbs. \$18.00

One-half Dozen in a Carton.

POCKET CARBIDE CANS

Furnished with No. 85, 704 and 100 Lamps
Tinned Steel, Ribbed

No. 77—Capacity 10 Oz., Double
Seamed, Sliding Cover, Concave
to Fit Boot or Hip Pocket. Holds a
Full Day's Supply. Will Not Rust. \$1.80



PLUMBERS CANDLES



For Shop or Plumbers Use

Per Set

No. 214—6x1 1/4 in., 5 in. a Set. \$0.30

LANTERN GLOBES

Dietz Loc-Nob on globes prevents globe from falling off wires when tilted back. In the short globes the hand may easily be inserted for cleaning.

BLIZZARD FITZALL LOC-NOB

For "No. 2 Blizzard" and "Hilo" Lanterns
Per Dozen

No. BFL—Plain, 6 3/8 in. High, 2 1/8 in. Diameter Top, 3 7/8 in. Diameter Bottom, Weight Per Dozen Packed About 15 Lbs. \$2.00

No. BFLR—Ruby, Otherwise Same as No. BFL. 5.10



D-LITE LOC-NOB

For "D-Lite" Lanterns

Per Dozen

No. DL—Plain, 4 5/8 in. High, 4 1/2 in. Diameter Top, 3 7/8 in. Diameter Bottom, Weight Per Dozen Packed About 13 Lbs. \$2.00

No. DLR—Ruby, Otherwise Same as No. DL. 5.10



LITTLE WIZARD LOC-NOB

For "Little Wizard" Lanterns

Per Dozen

No. LW—Plain, 3 3/8 in. High, 3 1/4 in. Diameter Top, 2 1/8 in. Diameter Bottom, Wt. Per Dozen Packed About 8 Lbs. \$1.80

No. LWR—Ruby, Otherwise Same as No. LW. 4.90



JUNIOR LOC-NOB

For "Junior" and "Junior Wagon" Lanterns

Per Dozen

No. J—Plain, 5 1/2 in. High, 2 3/8 in. Diameter Top, 2 1/8 in. Diameter Bottom, Weight Per Dozen Packed About 10 Lbs. \$1.80

No. JR—Ruby, Otherwise Same as No. J. 4.90



VULCAN RAILROAD

Heat Resisting, for "Standard" Railroad Lanterns

Per Dozen

No. 39—Plain, 5 7/8 in. High, 2 1/2 in. Diameter Top, 3 1/4 in. Diameter Bottom, Weight Per Dozen Packed About 15 Lbs. \$2.40

No. 39-R—Ruby, Otherwise Same as No. 39. 5.90



LAMP OR LANTERN WICKS

Flat For All Ordinary
Burners



| Nos. | 1 | 2 |
|------------------------|--------|-------|
| Width, Inches | 3/4 | 1 |
| Length, Inches | 8 | 8 |
| Weight Per Gross, Lbs. | 3/4 | 1 1/4 |
| Per Gross | \$2.00 | 3.00 |

One Gross in a Package.



CANDLE WICKING

Per Pound

Candle Wicking—Cotton, in 2 Oz.
Balls \$0.80

Five Pounds in a Bag.

LANTERN BURNERS

DIETZ

Dietz Tinned Steel Burners do not break down, are cooler than Brass Burners, give a White Flame and last during the life of the lantern.



No. 262.

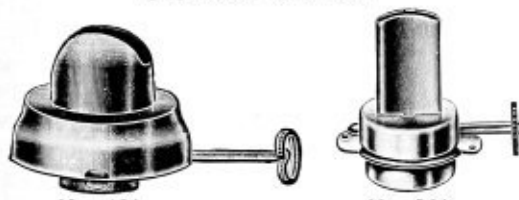
No. 201.

For "Blizzard" and "D-Lite" Cold Blast Lanterns

No. 262—Tinned Steel, Wing-Lock Cone, Takes 1 in. Wick, Weight Per Dozen About 2 Lbs. \$1.60

For "Little Wizard," "Junior" and "Junior Wagon" Cold Blast Lanterns

No. 201—Tinned Steel, Wing-Lock Cone, Takes 5/8 in. Wick, Weight Per Dozen About 2 Lbs. \$1.10
One Dozen in a Box.



No. 421.

No. 561.

For "Hylo" Hot Blast Lanterns

No. 421—Tinned Steel, Hinged Cone, Takes 5/8 in. Wick, Weight Per Dozen About 2 Lbs. \$1.35

For "Eureka" Driving and Parking Lanterns

No. 561—Tinned Steel, Wing-Lock Cone, Takes 5/8 in. Wick, Weight Per Dozen About 2 Lbs. \$1.35
One Dozen in a Box.



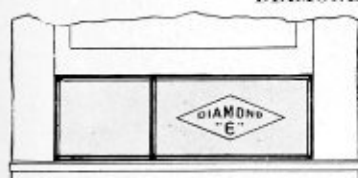
For "Standard" Railroad Lanterns

No. 1—Extra Special Ratchet, Brass, for Signal Oil, Takes 1 in. Wick, Wt. Per Dozen About 2 Lbs. \$2.40

One Dozen in a Box.

WINDOW VENTILATORS

DIAMOND "E"



Will not rust, corrode, break, split, warp or fall apart and the two sliding parts are easily adjustable.

Lets in clean, pure, fresh air and keeps out coal soot, dirt, dust, rain and snow.

A necessity in all homes and institutions. Linen Colored Cloth of Fine Quality and Strength.

Black Enameled All Metal Frame

| Nos. | 01 | 02 | 03 | 1 |
|----------------------|--------|-------|-------|-------|
| Height, Inches | 8 | 8 | 8 | 11 |
| Width Open, Inches | 30 | 39 | 47 | 30 |
| Width Closed, Inches | 16 | 20 | 24 | 16 |
| Weight Each, Lbs. | 1 | 1 1/4 | 1 1/2 | 1 1/4 |
| Each | \$0.60 | .65 | .75 | .70 |
| Nos. | 2 | 3 | 4 | 5 |
| Height, Inches | 11 | 11 | 16 | 16 |
| Width Open, Inches | 39 | 47 | 39 | 47 |
| Width Closed, Inches | 20 | 24 | 20 | 24 |
| Weight Each, Lbs. | 1 1/2 | 1 3/4 | 1 3/4 | 2 |
| Each | \$0.75 | .85 | 1.00 | 1.10 |

One Dozen in a Carton.

LASTS AND STANDS

GUARANTEED PERFECTION



Semi-Steel, Black Japaned

Made from a special metal of highest quality, producing sets better in weight and strength than anything on the market.

Have the correct weight to prevent the lasts from bouncing around on the stand when struck.

Absolutely guaranteed against breakage and any claims for breakage will be replaced.

Reversible, Two Positions, Horizontal and Upright

No. 50-G—Stand 24 in. High, Four Round Toe Lasts, 10 1/2, 9, 7 1/4 and 6 in. Long, Weight Per Set About 15 Lbs. \$2.00

No. 52-G—Stand 15 in. High, Four Round Toe Lasts, 10 1/2, 9, 7 1/4 and 6 in. Long, Weight Per Set About 12 Lbs. 1.50

Open Stock.

STEEL GAME TRAPS

VICTOR

Well made, light in construction. Crucible steel springs have just the right strength and elasticity, are of superior quality and temper.

Jaws are made of rolled steel to give them great strength and lightness.

All are provided with steel wire chain, ring and staple. Each pan is pierced with a "V" to identify the genuine "Victor".



Single Spring, with Chain

No. 0-V —For Rats, Gophers, Weasels, Etc. \$2.00

No. 1-V —For Muskrat, Skunk, Opossum, Etc. 2.25

No. 1 1/2-V—For Mink, Skunk, Raccoon, Muskrat, Etc. 4.00

Specifications

| Nos. | 0-V | 1-V | 1 1/2-V |
|------------------------|-------|-------|---------|
| Spread of Jaws, Inches | 3 1/2 | 4 | 4 1/2 |
| Length of Trap, Inches | 6 1/2 | 8 1/2 | 9 1/2 |
| Weight Per Dozen, Lbs. | 5 | 7 1/2 | 11 1/2 |
| Dozen in a Barrel | 55 | 40 | 25 |



Double Spring, with Chain

No. 2-V—For Fox, Raccoon, Fisher, Etc. \$5.50

Specifications

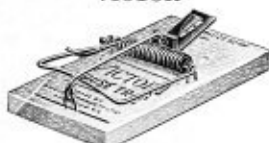
| Nos. | 2-V |
|------------------------|--------|
| Spread of Jaws, Inches | 4 1/2 |
| Length of Trap, Inches | 14 1/2 |
| Weight Per Dozen, Lbs. | 13 1/2 |
| Dozen in a Barrel | 15 |

MOUSE TRAPS

**ROUND WOOD
CHOKER**

Stained Bright
Red, Coppered
Steel Wire
Springs

No. 4—Four Holes, Weight Per
Dozen 5 Lbs. \$1.50
One Dozen in a Bundle.

VICTOR

Metal Trigger

Selected Hardwood Base, Coppered
Tempered Steel Wire Spring.

No. VM—3 7/8 x 2 1/4 in. Base,
Weight Per Dozen 1 Lb. \$0.60

The Bait Trigger is designed to
make catching sure every time. The
spring is fastened with clinched
staples that will not pull out.

One Dozen in a Carton.

HOLD 'EM

Spring Steel Wire, Lacquered

Per Dozen

No. 00—9 in. Long, 4 1/2 in.
Wide, Double Metal Ribs
Safety Door, Weight Per
Dozen 3 Lbs. \$7.50

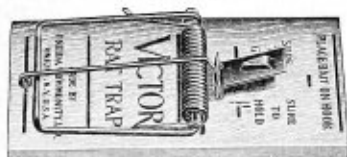
The door opens and closes from the
top, and is perfectly secure when
locked, which is an advantage when
killing the mice with a dog.

No need of drowning the mice and
rusting the trap.

One Dozen in a Carton.

RAT TRAPS

VICTOR



Metal Trigger

Selected Hardwood Base, Coppered
Tempered Steel Wire Spring.

Per Dozen

No. VR—7 x 3 1/2 x 1 1/2 in. Base,
Weight Per Dozen 6 Lbs. \$1.50

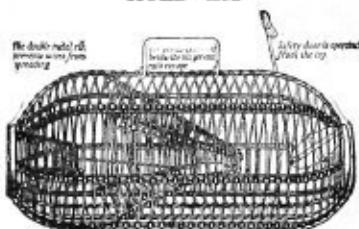
The overhanging bow is designed to
strike quickly and hold tightly. Has
short bait trigger—the rat is always
caught well back on the body and has
no chance to escape.

The heavy powerful spring is tight-
ened with clinched staples that will
not pull out.

One Dozen in a Carton.

RAT TRAPS

HOLD 'EM



Spring Steel Wire, Lacquered

Double Metal Ribs, Extension Bot-
tom, Safety Door.

Per Dozen

No. 1—16 in. Long, 9 in. Wide,
7 in. High, Weight Per
Dozen 28 Lbs. \$12.00

No need of drowning the rats and
rusting the trap. The door opens and
closes from the top and is perfectly
secure when locked, which is an ad-
vantage when killing the rats with a
dog. Cannot get broken or displaced.

One-half Dozen in a Carton.

ALARM TILLS

TUCKER



Improved Lock, 32 Changes

Quartered Oak Front, Drawer Dove-
tailed, Rounded Edges, Varnished and
Polished, Wax Finish.

Each

No. 501 — 4 7/8 x 18 1/4 x 16 1/2 in.
Over All, Four Bill Spaces
3 5/8 x 8 in., Two Bowls for
Gold, Groove for Pencils,
etc., Four Round Bowls
3 1/2 in. Diameter, Two Ob-
long Bowls 3 1/2 x 5 in., Wt.
Each 14 Lbs. \$7.00

One in a Carton, Six in a Crate.



Improved Lock, 32 Changes

Oak Front, Drawer Gained, Front,
Interior and Tray Varnished.

Each

No. 503 — 4 7/8 x 18 1/4 x 16 1/2 in.
Over All, Four Bill Spaces
3 5/8 x 8 in., Two Bowls for
Gold, Groove for Pencils,
etc., Four Round Bowls 3 1/2
in. Diameter, Two Oblong
Bowls 3 1/2 x 5 in., Weight
Each 14 Lbs. \$6.00

One in a Carton, Six in a Crate.

ALARM TILLS

TUCKER



Improved Lock, 32 Changes

Oak Front, Drawer Gained, Front
Varnished, Interior and Tray Stained,
fitted with a Silver-tone Cathedral
Gong that Rings Each Time Finger
Keys are Pulled. Each

No. 504—4 1/2 x 18 1/4 x 15 in. Over
All, Three Bill Spaces 3 5/8 x
7 1/4 in., Two Bowls for
Halves and Dollars, Four
Round Bowls 3 1/2 in. Diam-
eter, Coin Tray Slides Side-
ways, Weight Each 11
Lbs. \$5.25

One in a Carton, Six in a Crate.

BASIN PLUGS

**White Rubber, Nickel Plated Brass
Trimmings**

| Size, Inches... | 1 | 1 1/2 | 1 3/4 | 1 1/2 |
|-----------------|--------|-------|-------|-------|
| Wt. Doz., Lbs. | 1/2 | 5/8 | 3/4 | 1 |
| Per Dozen... | \$0.80 | .90 | 1.00 | 1.20 |

One Dozen in a Box.

TANK BALLS

Extra Quality White Rubber

Hard Reinforced Top and Soft Bottom.

| Size, Inches... | 2 | 2 1/2 | 3 |
|-----------------|--------|-------|-------|
| Wt. Dozen, Lbs. | 1 5/8 | 2 1/2 | 3 1/2 |
| Per Dozen... | \$3.00 | 3.50 | 4.00 |

One Dozen in a Box.

TANK BALL STEMS

Brass Wire Per Dozen

No. 02—Lower Lift, 4 3/4 in.
Long, Threaded to Fit Tank
Balls, Weight Per Dozen
About 1/2 Lb. \$1.00
100 in a Box.

COMPRESSION BIBBS

PLAIN



Finished Brass, Screwed for Iron Pipe

| | | | |
|-----------------|---------------|---------------|---------------|
| Nos. | 871 | 872 | 874 |
| Inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Wt. Dozen, Lbs. | 8 | 11 | 13 |
| Per Dozen | \$18.60 | 19.80 | 33.00 |

One-half Dozen in a Carton.

HOSE



Finished Brass, Screwed for Iron Pipe

| | | | |
|-----------------|---------------|---------------|---------------|
| Nos. | 891 | 892 | 893 |
| Inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Wt. Dozen, Lbs. | 10 | 11 | 22 |
| Per Dozen | \$21.60 | 22.80 | 36.00 |

One-half Dozen in a Carton.

LEVER HANDLE BIBBS



Polished Brass, Tinned Shank, for Lead Pipe

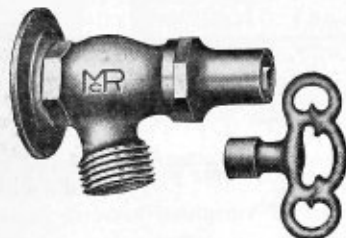
| | | | |
|-----------------|-----------------|---------------|------------------|
| Nos. | 231 | 232 | 233 |
| Inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Wt. Dozen, Lbs. | 8 $\frac{1}{2}$ | 11 | 12 $\frac{1}{2}$ |
| Per Dozen | \$26.40 | 27.00 | 37.20 |

| | | |
|-----------------|------------------|-------|
| Nos. | 234 | 235 |
| Inches | $\frac{3}{4}$ | 1 |
| Wt. Dozen, Lbs. | 16 $\frac{1}{2}$ | 29 |
| Per Dozen | \$47.40 | 68.40 |

One-half Dozen in a Carton.

SILL COCKS

COMPRESSION PATTERN



Brass, Nickel Plated, Loose Key Rough Body. Semi-Finished Trimings, Large Waterway.

| | | |
|--------------------|-----------------|---------------|
| Size, Inches | $\frac{1}{2}$ | $\frac{3}{4}$ |
| Wt. Carton, Lbs. | 6 $\frac{1}{2}$ | 7 |
| Per Dozen | \$34.80 | 34.80 |

One-half Dozen in a Carton.

PETROLEUM FAUCETS

FRARY



Japanned Iron, Brass Key, Lever Handle, Screw Shank, for Wood

| | | |
|-----------------|-----------------|------------------|
| Nos. | 14 | 5 |
| Inches | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Wt. Dozen, Lbs. | 7 $\frac{3}{4}$ | 10 $\frac{1}{2}$ |
| Per Dozen | \$11.00 | 13.00 |

| | | |
|-----------------|---------------|-------|
| Nos. | 6 | 7 |
| Inches | $\frac{3}{4}$ | 1 |
| Wt. Dozen, Lbs. | 17 | 23 |
| Per Dozen | \$16.00 | 23.00 |

One-half Dozen in a Carton.

LOCK OIL BIBBS

McDONALD



For Steel Oil Barrels and Drums

When closed lever drops over loop on Bibb allowing it to be padlocked.

Cast Brass, Rough Finish

| | |
|--|-----------|
| No. E-11001— $\frac{3}{4}$ in., Lock | Per Dozen |
| Lever Handle, Threaded Shank, for Iron Pipe or Tanks, Weight Per Dozen About 16 Lbs. | \$36.00 |
| One-half Dozen in a Carton. | |

LIQUOR FAUCETS

McKENNA BURLAR PROOF



Brass, Nickel Plated, Loose Key, to Screw

| | |
|--------------------------|---------------|
| Size Shank, Inches | $\frac{3}{8}$ |
| Weight Per Dozen, Lbs. | 12 |
| Per Dozen | \$25.00 |

The "shut-off" is inside the barrel, therefore not a drop of liquor can remain in the body of the faucet. Has German Silver Strainer Cap. One Dozen in a Box.



Polished Brass, to Screw

| | |
|--|-----------|
| No. 111— $\frac{1}{2}$ in., Weight Dozen | Per Dozen |
| 10 Lbs. | \$19.00 |
| No. 112— $\frac{3}{4}$ in., Weight Dozen | |
| 14 Lbs. | 24.50 |
| One-half Dozen in a Carton. | |

RACKING COCKS



Polished Brass, Loose Key, to Screw

| | |
|---|-----------|
| No. 43— $\frac{3}{4}$ in., Weight Dozen | Per Dozen |
| 14 Lbs. | \$31.00 |
| One-half Dozen in a Carton. | |

RACKING COCKS



Finished Brass, Loose Key, to Screw

| | | | |
|-----------------|---------------|---------------|---------------|
| Nos. | 640 | 641 | 642 |
| Inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{5}{8}$ |
| Wt. Dozen, Lbs. | 7 | 9 | 12 |
| Per Dozen | \$14.50 | 18.00 | 23.50 |

Nos. 640 and 641, One Dozen; No. 642, One-half Dozen in a Carton.

OIL AND MOLASSES GATES

STEARNS PERFECTION PATTERN



Japanned Iron

Style A—Tapered Screw Shank, Wood Thread

| | | | |
|------------------|---------------|---------------|-------|
| Inside Dia., In. | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 |
| Wt. Dozen, Lbs. | 15 | 18 | 24 |
| Per Dozen | \$15.00 | 15.50 | 16.00 |

| | | | |
|------------------|-----------------|-----------------|-------|
| Inside Dia., In. | 1 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | 2 |
| Wt. Dozen, Lbs. | 30 | 44 | 55 |
| Per Dozen | \$18.50 | 22.00 | 30.00 |

Style E—Straight Screw Shank, Iron Pipe Thread

| | | | |
|------------------|---------------|-------|-----------------|
| Inside Dia., In. | $\frac{3}{4}$ | 1 | 1 $\frac{1}{4}$ |
| Wt. Dozen, Lbs. | 17 | 23 | 29 |
| Per Dozen | \$17.00 | 17.60 | 20.35 |

| | | |
|------------------|-----------------|-------|
| Inside Dia., In. | 1 $\frac{1}{4}$ | 2 |
| Wt. Dozen, Lbs. | 38 | 49 |
| Per Dozen | \$24.20 | 33.00 |

Will hold the thickest of syrups, varnishes, etc., to the thinnest of fluids like benzine, naphtha, etc.

One-half Dozen in a Box.

STEBBINS PATTERN



Japanned Iron, Polished Face and Cut-Off, Tapered Screw Shank for Wood

| | | | |
|------------------|---------------|---------------|-----------------|
| Nos. | 1 | 2 | 3 |
| Inside Dia., In. | $\frac{3}{8}$ | $\frac{1}{2}$ | 1 $\frac{1}{4}$ |
| Wt. Dozen, Lbs. | 10 | 15 | 23 |
| Per Dozen | \$7.20 | 7.80 | 9.00 |

| | | |
|------------------|-----------------|-----------------|
| Nos. | 4 | 5 |
| Inside Dia., In. | 1 $\frac{3}{8}$ | 1 $\frac{1}{2}$ |
| Wt. Dozen, Lbs. | 26 | 28 |
| Per Dozen | \$10.20 | 12.00 |

One-half Dozen in a Box.

WOOD FAUCETS



Cedar, Unlined, Wood Key
Per Dozen
No. 2—8 in. Long, Weight
Per Dozen 5 Lbs. \$2.00
One Dozen in a Box.

PEERLESS

Polished Maple Body, Leather
Lined, Block Tin Key

The Block Tin Key will not
corrode, nor will it contaminate
the liquor.

| | | | |
|-------------------------|--------|-------|-------|
| Length, Inches | 7 | 8 | 9 |
| Weight Dozen, Lbs. | 4 1/2 | 5 1/2 | 7 1/2 |
| Per Dozen | \$3.50 | 4.00 | 4.50 |

One Dozen in a Box.



EAGLE



Maple Wood Body,
Leather Lined, Wood
Lined Metal Key

Per Dozen
No. 1—9 in. Long,
Weight Per Dozen
6 Lbs. \$4.50
Open Stock.

DIAMOND LOCK

Highly Polished Maple Wood
Body, Best Block Tin Trim-
mings, Loose Key

| | | |
|-------------------|--------|------|
| Length, Inches... | 7 | 8 |
| Wt. Dozen, Lbs. . | 10 | 11 |
| Per Dozen | \$3.50 | 4.00 |

One Dozen in a Box.



BUNG HOLE BORERS

IMPROVED ENTERPRISE



Graduated, Tempered Steel, Polished, Round Lip Bit,
Wood Handle

| | | | |
|---------------------------|----------------|------------|------------|
| Nos. | 1 | 2 | 3 |
| Bores, Inches | 1 1/2 to 1 3/4 | 1 3/4 to 2 | 1 3/4 to 3 |
| Weight Per Box, Lbs. | 20 | 38 | 35 |
| Each | \$4.00 | 5.50 | 8.00 |

Bores a complete round hole, regular taper, holds its
own chips and prevents them from entering the cask.
Nos. 1 and 2, Twelve; No. 3, Six in a Box.

BIBB WASHERS

FIBER



Glycerine Cured

Furnished in Both Gray and Red, Flexible for Cold
Water.

| | | | | |
|------------------------|--------|-------|------|------|
| Size, Inches | 3/4 | 1 1/2 | 5/8 | 3/4 |
| No. in Lb. About | 350 | 280 | 240 | 165 |
| Per 100 | \$1.00 | 1.25 | 1.50 | 1.75 |

Open Stock.

WASTE PAPER BALERS

ALSTEEL

Compact, Durable and Efficient

The Alsteel is compact and takes
up less floor space than any ma-
chine of like capacity on the mar-
ket. It has two rollers in front and
by simply tipping the machine for-
ward onto these it may be wheeled
like a truck.

It is made of all steel with no cast
iron parts to break and no wood
parts to warp, split, rot or burn.

Has an automatic lift for the
presser head so that it is not neces-
sary to wind it up with a crank.
Has a double acting pressing me-
chanism so that pressure is obtained
on both up and down strokes of
the lever. It is the fastest hand
baler on the market.

Makes a compact bale that will
stand shipping. The wiring is done
before the paper is put in the baler
eliminating clogging of wire slots.
All work is done from in front of
the baler.

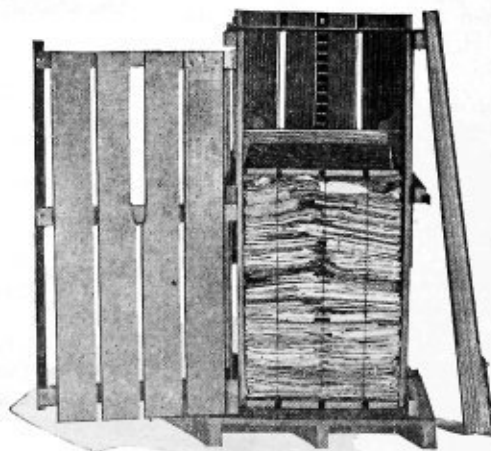
Heavy Sheet Steel Body, Reinforced with Steel Angles,
Battleship Gray Enameled

| | | |
|---------------------------|-------------|-------------|
| Nos. | 1 | 2 |
| Size Bale, Inches | 14x18x28-38 | 16x20x30-40 |
| Weight Bale, Lbs. | 190 | 125-150 |
| Height, Inches | 69 | 78 |
| Floor Space, Inches | 20x22 | 22x24 |
| Weight Each, Lbs. | 150 | 200 |
| Each | \$50.00 | 60.00 |

When the feed door is closed, the Alsteel is absolutely
fireproof. Provides a safe storage for all loose combustible
waste. Eliminates risk, decreases fire hazard and lowers
insurance rates.

One in a Crate.

GEM



Made of well seasoned hardwood, thoroughly bolted and
screwed together. Steel and malleable iron metal parts.

Finished with Two Coats of Vermillion Enamel Paint

| | |
|---|---------|
| Gem—14x18x36 in. Bale, Bale Weighs 80 to 100 Lbs., Height of Baler Over All 4 ft. 3 in., Floor Space 23x26 in., Weight Each 135 Lbs. | \$20.00 |
|---|---------|

Pressure is obtained from Ratchet in Back of Baler,
directly from Lever on Plunger, there being Side Ratchets
to hold Plunger in position.

One in a Crate.

VACUUM BOTTLES

"UNIVERSAL" UTILITY

With Extra Drinking Cups with Folding Handles Nested in Handed Outside Cover Cup



The Quart Size Bottles have Three Extra Cups and Outside Cup. The Pint Size Bottles have Two Extra Cups and Outside Cup. Pint Size Bottles have Two Extra Cups and Outside Cup.

All Extra Cups are of Aluminum, regardless of size or style of bottle.

These new Utility Vacuum Bottles with Extra Cups allow several persons to be served at the same time with entire regard for sanitary principles. This Multi-cup feature does not increase the size of the bottle nor destroy its symmetry. The Extra Cups are safely carried in the Outside Cup.

Keep Hot Liquids Hot 24 Hours, Cold Liquids Cold 72 Hours

Every Filler is first grade and high test regardless of price of bottle. Filler is supported in the Case by a Spring Shock Absorber and a Rubber Cushion.



Heavy Steel Case, Dull Black Enameled

Aluminum Shoulder, Aluminum Outside Cup, Highly Polished Outside.

Each
No. 5111—Pint, Weight Each About 1 3/4 Lbs. \$1.35
No. 5112—Quart, Weight Each About 3 Lbs. 2.35

One in a Carton, Twelve in a Case.

Nos. 5111 and 5112



Nos. 571 and 572

Heavy Steel Case, Dark Green Enameled

Nickel Plated Brass Shoulder and Outside Cup, Inside of Cup is Silver Finished.

Each
No. 571—Pint, Weight About 1 3/4 Lbs. \$2.00
No. 572—Quart, Weight Each About 3 Lbs. 3.00

One in a Carton, Twelve in a Case.



Extra Heavy Seamless Corrugated Brass Case, Full Nickel Plated

All Rust-Proof Construction, Outside Cup Silver Finished Inside.

Each
No. 591—Pint, Weight Each About 1 3/4 Lbs. \$2.65
No. 592—Quart, Weight Each About 3 Lbs. 4.00

One in a Carton, Twelve in a Case.

"COLUMBIA"

A genuine Vacuum Bottle, honestly made, representing excellent quality at a low price.

Equipped with genuine high grade Glass Filler, subjected to a 24 hour test, and effectively maintains hot or cold temperature. Standard Flat Metal Spring Support and Shock Absorber protect it against breakage.

Steel Case, Mahogany Red Enameled, Polished Aluminum Shoulder and Cup. Each

No. 1011—Pint, Weight Each About 1 3/4 Lbs. \$1.00
No. 1012—Quart, Weight Each About 3 Lbs. 1.75

One in a Carton, Twelve in a Case.

EXTRA GLASS FILLERS

For "Universal Utility" and "Columbia" Vacuum Bottles

Each
No. 00—Half Pint, Weight Each 3/4 Lb. \$1.00
No. 01—Pint, Weight Per Case 13 Lbs. 1.00
No. 02—Quart, Weight Per Case 20 Lbs. 1.75
No. 00, One in a Carton; Nos. 01 and 02, Twelve in a Case.

VACUUM BOTTLES

"STANLEY SUPER-VAC"

Non-Breakable



Guaranteed to retain temperature, not to break and not to leak.

A newly developed process makes possible an improved, efficient All Steel Bottle and permits the above triple guarantee.

The inner Steel Bottle is lined with "Amalite," giving a smooth, hard, perfectly sanitary surface.

The first cost is the last cost and the expense and annoyance of buying new parts eliminated.

Heavy Steel Case, Royal Blue Enameled, Nickel Plated Cup, Shoulder and Base

Each
No. 703—Pint, Weight Per Case 17 Lbs. \$7.00
No. 704—Quart, Weight Per Case 23 Lbs. 8.00
One in a Carton, Six in a Case.

VACUUM JUGS

STANLEY NON-BREAKABLE

Blue Enameled Outer Steel Case



Steel Inner Bottle Lined with Porcelain. Space between Inner Bottle and Outer Jacket has a Highly Insulated Filling.

Will keep foods or liquids hot or cold all day.

Each
No. 303—Capacity 1 Gal., 14 1/4 x 8 1/2 in. Nickel Plated Screw Cap with 2 Extra Aluminum Cups, Nickel Silver Stopper, Wt. Each 9 Lbs. \$7.50

One in a Carton.

WORKMENS LUNCH KITS

UNIVERSAL

Black Finish



No. 310.

One in a Carton, Six Cartons in a Case.

Black Finish

With Two Aluminum Trays for Carrying Pie, Pudding, etc.

Each
No. 320—10x5x7 1/2 in., Heavy Tin Case, Complete with Pint Universal Vacuum Bottle with Aluminum Shoulder and Drinking Cup with Folding Handles, Wt. Each 5 Lbs. \$3.25

One in a Carton, Six Cartons in a Case.



No. 320.

In the above Lunch Kits, a free circulation of air through a number of vent holes keeps the box sweet and the food within it fresh and wholesome. Catch holds drawer in place.

ELECTRICAL APPLIANCES

"UNIVERSAL"

"Universal" Electrical Appliances have a distinction all their own and offer the best values obtainable in quality of materials, attractiveness of design, workmanship and service rendered.

The "Universal" Heating Element is finest quality non-oxidizing nichrome wire wound on India Mica insulated above and below with mica. Positively no possibility of a short circuit.

The "Universal" Safety Fuse Plug placed in all appliances designed to heat water or liquids prevents all possibility of an overheated element. It is simply an easily replaced Lead Fuse.

110 Volts are Standard, covering a range of 106 to 114 Volts.

"UNIVERSAL" ELECTRIC COFFEE URNS

Heavy Solid Copper Seamless Body, Nickel Plated, Inside Coated with Pure Tin, Silver Finished, Pure Aluminum Interior Fittings, Heat-proof Glass Top, Safety Fuse with 6 ft. Art Silk Heater Cord and Standard Attachment Plug.



LOVING CUP PATTERN

Ebonized Wood Handles, Faucet Handle and Feet, 400 Watts

| Nos. | E-9166-N | E-9169-N |
|-------------------------|----------|----------|
| Capacity, Cups..... | 6 | 9 |
| Height Over All, In.... | 15 1/2 | 17 1/2 |
| Wt. Ea. Packed, Lbs.... | 7 1/2 | 8 1/4 |
| Each | \$22.50 | 25.00 |

One in a Carton.

GRECIAN PATTERN

Swinging Cast Metal Handles, Ivory Faucet Handle and Feet, 420 Watts

| No. | E-9189-N |
|-----------------------------|----------|
| Capacity Cups | 9 |
| Height Over All, Inches.... | 13 3/4 |
| Weight Each Packed, Lbs.... | 7 1/2 |
| Each | \$22.50 |

One in a Carton.



ANTHENIAN PATTERN

Metal Handles, Ivory Faucet Handle, Feet and Knob, 420 Watts

| No. | E-91759-N |
|-----------------------------|-----------|
| Capacity, Cups | 9 |
| Height Over All, Inches.... | 14 1/2 |
| Weight Each Packed, Lbs.... | 8 |
| Each | \$21.50 |

One in a Carton.



ROMAN PATTERN

Pendant Ivory Handles, Ivory Faucet Handle, Feet and Knob, 420 Watts

| No. | E-91739-N |
|-----------------------------|-----------|
| Capacity, Cups | 9 |
| Height Over All, Inches.... | 12 1/2 |
| Weight Each Packed, Lbs.... | 8 |
| Each | \$18.75 |

One in a Carton.



DUTCH COLONIAL PATTERN

Ebonized Wood Handles, Ivory Faucet Handle, 420 Watts

| Nos. | E-9106-N | E-9109-N |
|------------------------|----------|----------|
| Capacity, Cups..... | 6 | 9 |
| Hgt. Over All, In.... | 14 | 14 1/4 |
| Wt. Ea. P'ked, Lbs.... | 5 3/4 | 6 3/4 |
| Each | \$18.00 | 19.50 |

One in a Carton.

"UNIVERSAL" ELECTRIC COFFEE URNS
EMPIRE PATTERN

Ebonized Wood Handles and Faucet Handle, 420 Watts

| Nos. | E-9176-N | E-9179-N |
|-------------------------|----------|----------|
| Capacity, Cups..... | 6 | 9 |
| Height Over All, In.... | 14 1/4 | 15 1/2 |
| Wt. Ea. Packed, Lbs.... | 6 | 6 3/4 |
| Each | \$13.50 | 15.00 |

One in a Carton.



TUDOR PATTERN

Ebonized Wood Handles and Faucet Handle, 420 Watts

| No. | E-9136-N |
|-----------------------------|----------|
| Capacity, Cups | 6 |
| Height Over All, Inches.... | 14 1/2 |
| Weight Each Packed, Lbs.... | 5 1/2 |
| Each | \$12.50 |

One in a Carton.

UNIVERSAL COFFEE URN SETS
GRECIAN PATTERN

Swinging Cast Metal Handle, Ivory Faucet Handle and Feet on Urn.

Complete with 6 ft. Art Silk Heater Cord and Standard Attachment Plug.

420 Watts.



Heavy Solid Seamless Copper Bodies, Nickel Plated

No. E-918904-N Set—Consists of No. E-9189-N Urn, Capacity 9 Cups, No. 800-N Tray, 13x18 in., and No. 800-N Gold Lined Sugar Bowl and Cream Pitcher, Weight Per Set Packed 25 Lbs. \$45.75
One Set in a Wooden Case.

LOVING CUP PATTERN

Ebonized Handles and Feet.

Complete with 6 ft. Art Silk Heater Cord and Standard Attachment Plug.

400 Watts.



Heavy Solid Seamless Copper Bodies, Nickel Plated

No. E-916904-N Set—Consists of No. E-9169-N Urn, Capacity 9 Cups, No. 4400-N Tray, 12x18 in., and Nos. 440-N Gold Lined Sugar Bowl and Cream Pitcher, Weight Per Set Packed 24 Lbs. \$44.75
One Set in a Wooden Case.

ELECTRICAL APPLIANCES

"UNIVERSAL" ELECTRIC COFFEE PERCOLATORS

Pure Aluminum Interior Fittings, Ebonized Handles and Feet, Heat-Proof Glass Top, Safety Fuse Plug, Complete with 6 ft. Art Silk Heater Cord with Standard Attachment Plug and New Improved Connector Plug, 420 Watts.

DUTCH COLONIAL PATTERN



Heavy Seamless Copper Body, Nickel Plated, Inside Coated with Pure Tin, Silver Finished

| | |
|-------------------------------|----------|
| No. | E-9606-N |
| Capacity, Cups | 6 |
| Height Over All, Inches. | 10 1/4 |
| Weight Each Packed, Lbs. | 5 |
| Each | \$14.50 |

One in a Carton.

PLAIN PATTERN

Heavy Seamless Copper Body, Nickel Plated, Inside Coated with Pure Tin, Silver Finished



| | | | |
|-------------------------------|----------|----------|----------|
| Nos. | E-9635-N | E-9637-N | E-9639-N |
| Capacity, Cups | 5 | 7 | 9 |
| Height Over All, Inches. | 9 1/2 | 10 1/4 | 11 |
| Weight Each Packed, Lbs. | 5 | 5 1/2 | 6 |
| Each | \$10.00 | 11.00 | 12.50 |

One in a Carton.

CONTINENTAL PATTERN



Heavy Seamless Copper Body, Nickel Plated, Inside Coated with Pure Tin, Silver Finished

| | |
|-------------------------------|----------|
| No. | E-9876-N |
| Capacity, Cups | 6 |
| Height Over All, Inches. | 10 1/2 |
| Weight Each Packed, Lbs. | 4 1/4 |
| Each | \$10.00 |

One in a Carton.

ALUMINUM

Seamless, Aluminum Body, Highly Polished

| | |
|-------------------------------|--------|
| No. | E-9676 |
| Capacity, Cups | 6 |
| Height Over All, Inches. | 10 1/2 |
| Weight Each Packed, Lbs. | 3 1/4 |
| Each | \$8.00 |

One in a Carton.



"THERMAX" ELECTRIC COFFEE PERCOLATORS



Pure Aluminum Seamless Spun Body

Aluminum Interior Fittings, Ebonized Handle and Feet, Heat Proof Glass Top Safety Fuse Plug, Complete with 6 ft. Heater Cord with Standard Attachment Plug and New Improved Connector Plug, 420 Watts.

| | | |
|-------------------------------|--------|-------|
| Nos. | 3926 | 3929 |
| Capacity, Cups | 6 | 9 |
| Height Over All, Inches. | 10 | 11 |
| Weight Each Packed, Lbs. | 4 1/2 | 4 3/4 |
| Each | \$7.50 | 9.00 |

One in a Carton.

ELECTRICAL APPLIANCES

"UNIVERSAL" ELECTRIC BREAD TOASTERS



REVERSIBLE

The easy swinging Bread Holder—opening like doors—reverse by a slight touch of the fingers and allow the bread to be quickly toasted on both sides without being touched by the fingers.

With Reversible Bread Holders, Nickel Plated, Cool Fibre Handles and Feet

Complete with 6 ft. Art Silk Heater Cord with Standard Attachment Plug and New Improved Connector Plug.

| | | |
|------------------------------------|---------|---------------|
| Nos. | E-947 | E-949-X |
| Watts | 500 | 550 |
| Height Over All, Inches. | 7 | 7 1/4 |
| Takes Slice of Bread, Inches. | 4x4 1/2 | 5 1/2 x 4 1/2 |
| Weight Each Packed, Lbs. | 3 | 3 |
| Each | \$9.00 | 10.00 |

One in a Carton, Three in a Package.

OVEN

Toasts both sides from the largest loaf at one time. A handle pulls out the sliding rack which catches all crumbs and is easily emptied.



Nickel Plated, Wire Bread Holder, Ebonized Handles and Feet

No. E-942—550 Watts, 7 in. High, Takes 4 1/2 x 6 in. Slice of Bread, Complete with 6 ft. Art Silk Heater Cord, Push Button Switch, Standard Attachment Plug and New Improved Connector Plug, Weight Each Packed 3 Lbs. \$8.50

One in a Carton, Three in a Package.



STANDARD

Toasts large or small slices, two at one time. Ornamental bread holder with strong spring keeps bread firmly in place insuring evenly browned toast.

Nickel Plated, Cool Fiber Handles and Feet

Each

No. E-948-T—550 Watts, 7 1/4 in. High, Takes 5 1/2 x 4 1/2 in. Slice of Bread. Complete with 6 ft. Art Silk Heater Cord with Standard Attachment Plug and New Improved Connector Plug, Weight Each Packed 2 1/4 Lbs. \$5.75

One in a Carton, Three in a Package.

"THERMAX" ELECTRIC BREAD TOASTERS

Full Nickel Plated

No. 3946—500 Watts, 7 3/8 in. High, Takes 4 1/2 x 4 1/2 in. Slice of Bread, Complete with 6 ft. Heater Cord with Standard Attachment Plug and New Improved Connector Plug, Weight Each Packed 2 Lbs. \$3.75

One in a Carton, Three in a Package.



"THERMAX" ELECTRIC TOASTER STOVES



Will Toast, Broil, Fry and Stew

Has Kromore Wire Heating Element.

Full Nickel Plated

Each

No. 3982—550 Watts, 4 3/8 x 7 3/8 in. Top, Complete with 6 ft. Heater Cord with Standard Attachment Plug and New Improved Connector Plug, Weight Each Packed 3 1/4 Lbs. \$5.00

One in a Carton.

ELECTRICAL APPLIANCES

"UNIVERSAL DE LUXE" ELECTRIC WAFFLE IRONS



Exceptionally Efficient—Rapid in Operation—Beautiful Design

Makes four rich, thick, evenly browned waffles at one time.

The patented expansion hinge allows ample clearance for batter to "raise" a feature which every house-wife will appreciate.

Nickel Plated, Aluminum Grids, Cool Ebonized Handles, Fibre Feet Each

No. E-9314—660 Watts, 6 1/2 in. High Over All, 7 1/2 in. Diameter Grids, 9 1/4 in. Diameter Tray, Complete with 6 ft. Art Silk Heater Cord with Push Button Switch, Standard Attachment Plug and New Improved Connector Plug; Weight Each Packed 7 1/2 Lbs. \$15.00

The Pure Aluminum Grids are designed so as to slightly overhang the body and prevent any batter from entering crevices difficult to clean. Heating unit is of the coil construction. Heats very quickly and conserves the heat.

Single Set Terminal makes Double Cord Unnecessary.

The finely curved base serves as a tray and is very easy to clean. The ornamental perforations permit free circulation of air and keep the base cool.

One in a Carton, Three in a Package.

THREE HEAT SQUARE TABLE STOVES

Equipment



Deep Broiling Pan, for broiling, baking and roasting; 2 in. deep.

Inset Pan, for use as a chafin or double boiler; 2 in. deep.

Egg Poacher and Cups, provided with four feet to prevent

cups from tipping, can be easily lifted with a fork.

Reflector Pan, to prevent heat radiation, also used as a frying pan.

Cooking Cover, fits all pans, conserves heat and prevents the spattering of grease.

Broiler Grid, prevents meat from sticking to pans.

Nickel Plated Base and Frame, Pure Aluminum Pans and Cover Each

No. E-988—Three Heats, 160, 350 and 650 Watts, Three Heat Indicating Snap Switch, Cooking Top 6 1/4 in. Square, Large Cool Ebonized Wood Handles, Fibre Feet, Complete with 6 ft. Mercerized Heater Cord with Standard Attachment Plug and New Improved Connector Plug, Weight Each Packed 10 1/4 Lbs. \$15.00

Combines in one complete table stove the advantages of grill, toaster, chafin, fry pan and double broiler. An exclusive feature is the special aluminum inset pan for use in the same manner as a chafin dish. Cooks above and below the heating unit at the same time.

One in a Carton, Three in a Package.

"RELIANCE" ELECTRIC CURLING IRONS



Nickel Plated, Black Enameled Wood Handle.

Each

No. 501—25 Watts, 11 1/4 in. Long, 3/4 in. Diameter Rod, Complete with 6 ft. Black Heater Cord, Standard Attachment Plug and Detachable Swivel Plug, Weight Each Packed 3/4 Lbs. \$2.50

One in a Carton, Three in a Package.

ELECTRICAL APPLIANCES

"UNIVERSAL" ELECTRIC CURLING IRONS AND HAIR DRYERS



Nickel Plated, Aluminum Comb or Hair Dryer

Complete with 6 ft. Art Silk Heater Cord and Standard Attachment Plug, 25 Watts.

White Enameled Wood Handle

Each

No. E-9201—Without Hair Dryer, 10 3/4 in. Long Over All, 1/2 in. Diameter Rod, Weight Each Packed 1 Lb. \$4.25

No. E-92011—With Hair Dryer, Otherwise Same as No. E-9201, Weight Each Packed 1 1/2 Lbs. 5.00

Mahoganyized Wood Handle

Each

No. E-9801—Without Hair Dryer, 10 3/4 in. Long Over All, 1/2 in. Diameter Rod, Weight Each Packed 1 Lb. \$3.75

No. E-98011—With Hair Dryer, Otherwise Same as No. E-9801, Weight Each Packed 1 1/2 Lbs. 4.50

Supplies the correct heat without scorching the hair, for only one-fifth of a cent an hour. The Hair Dryer dries the hair quickly after the shampoo or bath. New improved detachable swivel connector prevents twisting of the cord.

One in a Display Carton; Six in a Package.

"THERMAX" ELECTRIC CURLING IRONS



Nickel Plated, Ebonized Wood Handle

Each

No. 3901—25 Watts, 10 3/4 in. Long Over All, 1/2 in. Diameter Rod, Complete with 6 ft. Heater Cord and Standard Attachment Plug, Weight Each Packed 13 Oz. \$3.25

New Improved Detachable Swivel Plug Prevents Kinking and Twisting of the Cord.

One in a Carton, Three in a Package.

"UNIVERSAL" ELECTRIC HEATING PADS



Soft and Flexible, conforms to any part of the body. Has a 3 Heat Cord Switch, operated (even in the dark) by pressure of the finger. Also has a patented 4 Thermostat Control which absolutely maintains the Heat at the desired temperature. (125°, 160° or 195°).

Costs less than half a cent per hour to operate. A Sleeping Porch necessity.

Gray Eiderdown Cover

Each

No. E-9940—3 Heats, Maximum 65 Watts, 12x15 in., Complete with 10 ft. Heater Cord, Switch and Standard Attachment Plug, Weight Each Packed 2 1/4 Lbs. \$8.50

One in a Display Carton, Three in a Package.

"THERMAX" ELECTRIC HEATING PADS

Brown Eiderdown Cover, Soft and Flexible

Each

No. E-3194—3 Heats, 25, 40 and 65 Watts, 12x15 in., Three Heats controlled by Switch in Cord, Thermostats Automatically Maintain Heat at the Desired Temperature, Complete with 10 ft. Heater Cord and Standard Attachment Plug, Weight Each Packed 2 1/4 Lbs. \$6.00

One in a Box, Six in a Carton.



ELECTRIC WASHING MACHINES



GRAYBAR

Operates on Revolving Cylinder Principle, Four Straight Panels Conceal All Mechanism

Tank—Either 26 gauge galvanized iron or 23 ounce cold rolled copper tinned on inside.

Frame—All metal. Angle iron frame with sheet steel panels.

Wringer—Cast iron frame, gray enameled, soft rubber rolls.

Cylinder—Specially designed metal cylinder, keeps clothes from rubbing against perforations in cylinder.

Control—Two controlling levers operate the machine. One for cylinder and one for wringer. Both can be reached from any side of machine. Wringer lever is marked with an arrow that points in the direction the clothes go.

Swinging Wringer—Has five operating positions.

Safety Wringer Release—A touch of the wringer release bar instantly releases tension of rolls.

Sanitary Tank—No cracks, crevices or corners on the inside of tank to collect dirt.

Motor— $\frac{1}{2}$ Horse Power Western Electric Motor, A. C. or D. C.

Dull Gray Enamel Finish, Relieved by Blue Border, Complete with 10 Foot Cord and Standard Attachment Plug

| | |
|--|------------------|
| No. 4—Galvanized Steel Tank, 37 in. High, 24½x33 in. Floor Space, Capacity 6 Sheets, Net Weight Each 215 Lbs., Shipping Weight Each 270 Lbs. | Each \$129.00 |
| No. 4C—Tinned Copper Tank—Otherwise Same as No. 2. | 139.00 |

One in a Crate.

ELECTRIC IRONERS

GRAYBAR

Electrically Driven, Gas Heated

Small enough to fit into the majority of kitchens or laundries yet large enough to do all the work a larger ironer can do—at the small cost of 2½ cents an hour.

Reversible Roll—Non-rusting metal thickly padded and covered with muslin, circular and well ventilated, stronger than wood and cannot warp. It turns at the rate of 4 to 5 R. P. M., or an ironing speed of 9 feet per minute.

The reversible roll is an exclusive feature of this ironer. Simplifies operation. If goods going through the ironer start to wrinkle, a snap of the control switch reverses the roll and the goods back out.

Open End Roll—Makes it possible to iron ruffles, collar bands, etc., and takes care of the overhanging of goods wider than the roll.

The Shoe—Cast iron machined to shape and highly polished. Heated by a gas burner.

Pressure Spring—Automatically adjusts the pressure of the shoe, thus allowing for varying thicknesses of cloth.

Electric Switch—Mounted on feed board. Starts and stops motor and causes roll to operate either forward or backward.

Hand Control—An upright lever convenient and easy to operate, for controlling shoe.

Foot Control—Separates shoe from roll when starting thick goods. Leaves hands free.

Feed Board—Comfortable height for the average woman.

Receiving Board—Prevents ironed clothes from dropping on the floor or in the operator's lap. Built at an angle which permits the operator to comfortably sit at machine or stand close to feed board.

Accessibility of Shoe—Shoe can be thrown back to a horizontal position making the entire surface accessible for cleaning.

Enclosed Gears and Belt—Eliminate all danger to operator. Mechanism is practically noiseless and requires no attention.

Motor— $\frac{1}{10}$ Horse Power, reversible, drives the ironer through a heavy V shaped belt and a silent worm gear. Belt tension regulated by adjusting bolts. Motors can be furnished A. C. or D. C.

Dull Gray Enamel Frame, Black Enamel Guard and Receiving Board, Feed Board Natural Wood, Varnished

| | |
|--|------------------|
| Electric Ironer—28 in. Roll, 37½x24 in. Floor Space, Shipping Weight Each 230 Lbs. | Each \$100.00 |
|--|------------------|

One in a Crate.



ELECTRIC SAD IRONS

UNIVERSAL

Hand wound elements cover practically the entire surface of the Sole Plate of Universal Irons and contain nearly a third more resistance wire (insuring longer life) than other irons. Heat distributed from point to heel where most needed. Unequalled Heat Storage. Patented 7 Point Contact Connection Plug.

UNIVERSAL, "WRINKLE-PROOF"

The Universal "Wrinkle-Proof" Iron, irons backwards and sideways as easily as forward, because of the Round Heel, an exclusive Universal Feature. No Corners or Sharp Edges to make extra work by catching or wrinkling the cloth on the back stroke. Tapered Point slips quickly and easily into the smallest pleats and ruffles of the daintiest lingerie.

Toggle Switch Model

By simply Pressing the Toggle Switch (contained in the detachable plug) the current may be instantly switched "on" or "off" permitting the use of the stored heat for all lighter work. Positive Action—a great convenience.



Complete with 6 ft. Black and Gold Cord with Detachable Connecting Plug and Reversible Heat-Proof Spring Stand

Each

No. E-9191—For 110 Volts, 580 Watts, Heavily Nickel Plated Base and Hood, Special Design Ebonized Wood Handle, Cord Protected at Iron by Spiral Spring; Weight Each 6 Lbs.\$6.75
One in a Carton, Six in a Case.



Complete with 6 ft. Mercerized Cord with Standard Attachment Plug and Reversible Heat-Proof Spring Stand

Each

No. E-909—For 110 Volts, 580 Watts, Heavily Nickel Plated Base and Hood, Ebonized Wood Handle, Cord Protected at Iron by Spiral Spring, Weight Each 6 1/4 Lbs.\$6.00

Large easy grip handle securely fastened by bolt passing completely through—cannot become loose—in the correct position to secure perfect balance, relieving much of the strain on the wrist.

One in a Carton, Six in a Case.

UNIVERSAL, TOURISTS



For the tourists and week ender or the woman who travels. Presses blouses, laces, lingerie and all travel wrinkled garments. Can be used for heating curling iron and when reversed can be used as a hot plate.

Complete with 6 ft. Mercerized Cord with Standard Attachment Plug and Reversible Heat-Proof Spring Stand

Each

No. E-9021—For 110 Volts, 400 Watts, Full Nickel plated, Detachable Ebonized Handle, Cord Protected at Iron by Spiral Spring, Complete with Neat Green Velvet Bag; Weight Each 3 Lbs.\$5.00

ELECTRIC SAD IRONS

DOVER

Dover Electric Sad Irons have the Patented "Vea No-Burn Out" Heating Element which is permanently sealed against those elements which cause burn-outs.

Rugged, Rigid, Pure Nickel Terminal Posts that will not rust or corrode are screwed and then riveted into Nickel Brass Terminal Lugs. These Lugs will not come loose and cause "high resistance joints", the source of much trouble with heating appliances.

Unbreakable "Lavite" Insulating Bushing Insulates the Terminal Posts from the Hood and holds the posts in perfect alignment.

Double Life "Veriflex" Heater Cord will not kink.

LADY DOVER

Toggle Switch Model

A strikingly beautiful iron of lifelong service.

The Toggle Switch in the Connector Plug gives instant "on" and "off" control of the current.



Extreme slope of sides and rear, with long point give complete visibility of all ironing edges. Relieves eyes and eliminates bending and stretching to see work.

Complete with 6 ft. Black and Gold Silk and Cotton "Veriflex" Cord, 2 Deck Nickel Plated Stand

Each

No. 870—For 110 Volts, 550 Watts, 7 1/4 x 4 1/4 in. Ironing Surface, Full Nickel Plated, Rubberoid Finish Wood Handle, Cord Protected at Iron by Spiral Spring, Weight Each 6 1/4 Lbs.\$6.75

One in a Display Carton, Five in a Case.

DOVER "DOMANCO"

An iron of distinct beauty, the iron of a lifetime for a lifetime.

Endorsed by National Board of Fire Underwriters, Good House-keeping, etc.



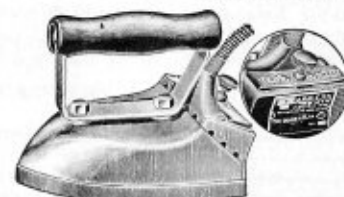
Complete with 6 ft. "Veriflex" Cord with Attachment Plug and 2 Deck Nickel Plated Stand

Each

No. 5—For 105-115 Volts, 550 Watts, Full Nickel Plated, Rubberoid Finished Wood Handle, Cord Protected at Iron by Spiral Spring, Weight Each 6 Lbs.\$5.00

One in a Carton, Five in a Case.

DOVER AUTOMATIC



Regulating screw gives any temperature desired between 300 and 600° F. Iron turns current on and off maintaining desired temperature indefinitely.

Complete with "Veriflex" Cord and Stand

Each

No. 6 1/2—For 110 Volts, 560 Watts, Full Nickel Plated, Rubberoid Finished Wood Handle, Cord Protected at Iron by Spiral Spring, Weight Each 6 1/2-7 Lbs.\$10.00

One in a Carton, Five in a Case.

ELECTRIC FANS

ROBBINS & MEYERS

Drawn Steel Frame—Base, Motor Frame and End Heads are drawn from Heavy Gauge Sheet Steel.

Rotor—Built up of Steel Laminations, Conductors Solidly Riveted and Soldered to End Rings. Rotor Shaft is of High Carbon Steel with all Bearing Surfaces Ground Accurately to Gauge.

Stator—Steel Lamination Securely Riveted together. Winding is Thoroughly Insulated from the Core. Completed Core Attached to Frame by Screws through End Heads.

Armature—Core is built up of Steel Laminations, Mounted Securely on High Carbon Steel Shaft, Winding well Insulated from Core, Best Grade Copper Commutator, Deep Segments, Mica Insulated.

Bearings and Oilers—Bearings are Large and Substantial, Phosphor Bronze Bushed, Lubricated by an Oil Cup at Each End of the Motor.

Adjustable Oscillating Mechanism—Positive in Action, Extremely Simple and Durable and Produces a Slow, Steady Oscillation. There is a Provision for Convenient and Positive Adjustment Gradually by a Fraction of a Degree for Air Direction from Full Sweep to Stationary, or Vice versa. All Gears and Pinions are Accurately Machined and Adjusted and Gear Box, Packed with a Season's Supply of Non-Fluid Grease, is Grease Tight.

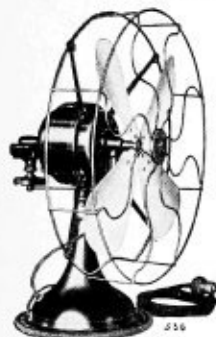
Blades—Firmly Constructed, Accurately Balanced, Designed for very Efficient and Effective Air Delivery. Their Shape and Pitch being Carefully Determined to give Maximum Breeze with Lowest Wattage and Least Noise.

Guards—Heavy Steel, Strong and Rigid and Securely Anchored to the Motor.

Base—So Constructed as to make it Practically Impossible to Accidentally Overturn the Fan. The Felt Protection Permits Fans to be placed on Highly Polished Surfaces without Danger to the Finish.

For 110 Volts, with a Range from 10 Per Cent Lower to 10 Per Cent Higher

MODEL 38—OSCILLATING



Four Blades, Three Speeds, Drawn Steel Frame

Four Point, Three Speed Switch, Felt Covered Base, Hinge Joint for Vertical Adjustment and Wall Mounting, Highly Finished in Baked Black Enamel Relieved with Gilt Lines on Motor and Base, Solid Brass Blades, Lacquered.

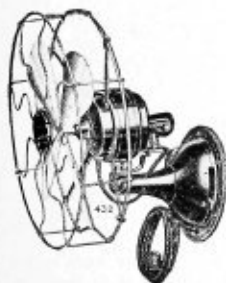
Induction Type Motor, 7 Complete Oscillations per minute, Full Sweep 95 Degrees.

Each

No. 3854-C—16 in., A. C., 60 Cycles, 3 Speeds, 1350 R. P. M. at 92 Watts, 1150 R. P. M. at 81 Watts and 1000 R. P. M. at 65 Watts, Complete with 8 ft. Cord and Standard Attachment Plug, Weight Each Packed 44 Lbs. \$35.00

One in a Box.

MODEL 45—OSCILLATING



Four Blades, Three Speeds, Drawn Steel Frame

Four Point, Three Speed Switch, Felt Covered Base, Hinge Joint for Vertical Adjustment and Wall Mounting, Highly Finished in Baked Black Enamel Relieved with Gilt Lines on Motor and Base, Solid Brass Blades, Lacquered.

Induction Type Motor, Seven Complete Oscillations per Minute, Full Sweep 90 Degrees.

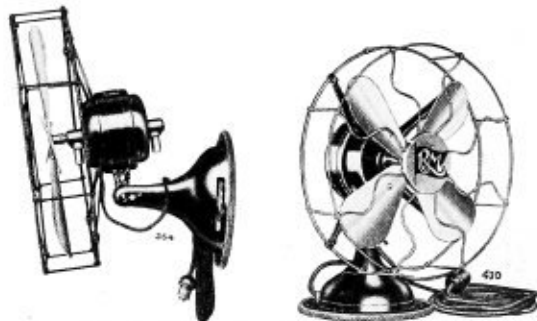
Each

No. 4504—12 in., A. C., 60 Cycles, 3 Speeds, 1450 R. P. M. at 44 Watts, 1300 R. P. M. at 36 Watts and 1050 R. P. M. at 31 Watts, Complete with 8 ft. Cord and Standard Attachment Plug, Weight Each Packed 20 Lbs. \$30.00

Embodies the latest improved construction of motor and base, being better in appearance, lighter in weight, cool running and very efficient.

One in a Box.

MODEL 47—NON-OSCILLATING



Four Blades, Three Speeds, Drawn Steel Frame

Four Point, Three Speed Switch, Felt Covered Base, Swivel Hinge Joint Provides for Wall-Bracket Mounting and Convenient Vertical or Horizontal Adjustment, Highly Finished in Baked Black Enamel Relieved with Gilt Lines on Motor and Base, Brass Blades, Lacquered. Induction Type Motor.

Each

No. 4704—12 in., A. C., 60 Cycle, 3 Speeds, 1450 R. P. M. at 43 Watts, 1300 R. P. M. at 35 Watts and 1050 R. P. M. at 31 Watts, Complete with 8 ft. Cord and Standard Attachment Plug, Weight Each Packed 20 Lbs. \$23.50

One in a Box.

MODEL 46—OSCILLATING



Four Blades, Three Speeds, Drawn Steel Frame

Four Point, Three Speed Switch, Felt Covered Base, Hinge Joint for Vertical Adjustment and Wall Mounting, Finished in Baked Black Enamel with Gilt Lines on Motor and Base, Steel Blades, Black Satin Finish.

Induction Type, A. C. Motor. Has a Single Oscillating Sweep making Five Complete Oscillations per Minute over 75 Degrees.

Each

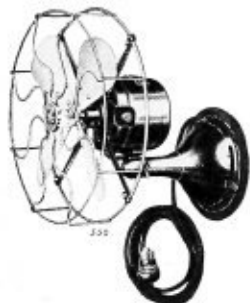
No. 4602—10 in., A. C., 60 Cycles, Three Speeds, 1500 R. P. M. at 33 Watts, 1400 R. P. M. at 26 Watts, 1250 R. P. M. at 23 Watts, Complete with 8 ft. Cord and Standard Attachment Plug, Weight Each Packed About 17 Lbs. \$16.50

One in a Box.

ELECTRIC FANS

ROBBINS & MEYERS

For 110 to 120 Volts

MODEL 43—NON-OSCILLATING

Wall Bracket Position.



Desk Position.

Four Blades, Three Speeds, Drawn Steel Frame

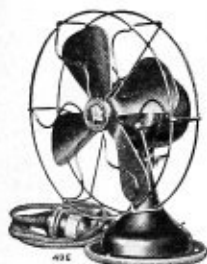
Four Point, Three Speed Switch, Felt Covered Base, Hinge Joint for Vertical Adjustment and Wall Bracket Position, Highly Finished in Baked Black Enamel with Gilt Striping Around the Base and Motor. Polished Solid Brass Blades, Lacquered.

Induction Type A. C. Motor.

No. 4312—10 in., A. C., 60 Cycles, Three Speeds, 1560 R. P. M. at 27 Watts, 1300 R. P. M. at 21 Watts, 1100 R. P. M. at 18 Watts, Complete with 8 ft. Cord and Standard Attachment Plug, Weight Each Packed About 15 Lbs. **\$15.00**

One in a Box.

Each

**MODEL 41—NON-OSCILLATING****Four Blades, One Speed, Drawn Steel Frame**

Felt Covered Base, Hinge Joint Permits Tilting Backward or Forward, Finished in Baked Black Enamel, Steel Blades, Black Satin Finish.

Induction Type A. C. Motor.

Each

No. 4100-S—8 in., A. C., 60 Cycles, 1550 R. P. M. at 30 Watts, Complete with 8 ft. Cord and Standard Attachment Plug, Weight Each Packed About 10 Lbs. **\$7.50**

This is a good, durable, well constructed long life fan that is attractive in appearance, and gives a very effective breeze with practically no noise and at a low wattage consumption.

One in a Box, Ten in a Case.

ELECTRIC HEATERS**"UNIVERSAL" STANDARD**

Dark Bronze Enamel Finish, Heavy Metal Base, Water Leaf Design

Each

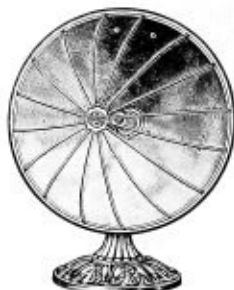
No. E-9953—625 Watts, 12 in. Plain Solid Copper Reflector, Highly Polished, 16 in. High Over All, Complete with 8 ft. Olive Green Mercerized Cord and Standard Attachment Plug, Weight Each Packed About 8 Lbs. **\$7.50**

One in a Carton, Three in a Package.

**ELECTRIC HEATERS****"UNIVERSAL" SUPER-FOURTEEN**

Dark Bronze Enamel Finish, Heavy Metal Base, Water Leaf Design

Each



No. E-9954—625 Watts, 14 in. Plain Solid Copper Reflector, Highly Polished, Height Over All 16 in., Complete with 8 ft. Olive Green Mercerized Cord and Standard Attachment Plug, Weight Each 8 Lbs. **\$8.50**

One in a Carton, Three in a Package.

"UNIVERSAL" SUNFLOWER

"The Heater Beautiful," Florentine Bronze Finish Heavy Metal Base, Water Leaf Design

Each

No. E-9955—625 Watts, 13 in. Solid Copper Fluted Reflector, Highly Polished, 16 in. High Over All, Complete with 8 ft. Olive Green Mercerized Heater Cord and Standard Attachment Plug, Weight Each Packed 8 Lbs. **\$8.00**



One in a Carton, Three in a Package.

These "Universal" Electric Heaters bring clean, safe and cheery heat to small chilly places and are so very attractive that they form an ornament to any room.

Each model has a long life heating unit with Edison screw base which can be replaced in a moment. Detachable wire guards on all models, easily removable. Reflector is adjustable to any angle and has convenient cool handle on the back.

HOME MOTORS**HAMILTON-BEACH**

Operates on Both A. C. or D. C., 105 to 115 Volts 25 to 60 Cycles

Each

Home Motor—Complete with Cord, Attachment Plug Speed Control Pedal and Can of Oil, Weight Each Packed 8 3/4 Lbs. **\$18.50**

This amazingly simple motor makes any old or new sewing machine a self-operating electric machine. It is merely placed next to the hand wheel—that's all; no tools or screws or clamps or belts. The Machine is unmarred. Wearisome and health endangering pedal drudgery is abolished forever.

The machine always starts the right way automatically, never breaks a thread. Sew fast or slow or speeds between. Controlled by a slight pressure on the Speed Control Pedal.

Uses less than a cents worth of current an hour.

One in a Box.

ELECTRIC VACUUM CLEANERS

LIBERTY

A highly efficient Cleaner with powerful suction. It is extremely easy to operate and its light weight permits its use by any member of the family. It requires very little care.

Motor—Equipped with a Universal Type Motor, air-cooled, strong, compact and powerful. Made especially for Vacuum Cleaner use.

Suction—High power suction gets all the germ laden, nap destroying embedded dirt.

Brush—An efficient double drive spiral nozzle brush picks up all surface litter.

Handle—Equipped with soft rubber switch cap to protect the switch. Broad, strong cord hooks do not

break the cord. An easily operated lock permits locking handle in any desired position.

Bag—Dust-proof fabric, Bayonet lock bag connector and easy-on bag clamp.

Fan—Seven blade steel fan with flange to prevent hair and lint from winding around shaft on back of fan.

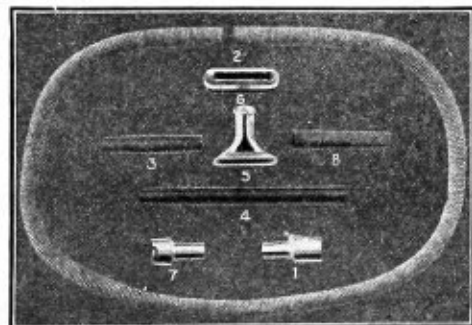
Attachments—Connected directly into the center of fan.

Nozzle Adjustment—A sensitive adjusting screw in the rear of motor gives a wide nozzle adjustment.

Construction—Built throughout of highest quality materials with graceful lines and high finish. Fully guaranteed.

Liberty—For 110 Volts A. C. or D. C., Complete with Cord and Plug, Net Weight Each 12 Lbs., Weight Each Packed with Attachments 18 Lbs. **\$36.50**
One in a Carton.

ATTACHMENTS FOR LIBERTY ELECTRIC VACUUM CLEANERS



Liberty Attachments—8 Attachments as Enumerated Below **\$8.50**

Contents of Set

- No. 1—Suction Connecting Tool.
No. 2—Long Rubber Hose.
No. 3—Short Fibre Section.
No. 4—Long Fibre Section or Extension Tube.
No. 5—Cleaning Tool, to be Attached to No. 3 or Small End of No. 4 for Cleaning Clothes, Curtains, Drapes, etc.
No. 6—Upholstery Brush, Slides on No. 5.
No. 7—Blower Connection Tool, to be Attached at Point where Bag is Removed.
No. 8—Soft Nose Blower Tool to be Attached to No. 3. May Also be Used for Suction.

ELECTRIC GLUE POTS

STA-WARM



"Sta-Warm" patented construction gives marvelous glue and time economy.

The heating element is wound tightly around cast aluminum inner wall so heat reaches glue instantly.

Regular Pot. Asbestos insulation holds heat in and converges it on the contents of the pot.

Automatic Heat Control or Thermostat keeps two-thirds of the current turned off except for a few minutes when starting the cold glue pot. Makes overheating impossible and protects the heating element from burning out. Thermostat set to maintain a temperature of 150 degrees.

The removable brush wiper saves glue; surplus scraped off brush, falls into pot. Also saves time in washing the pot.

For 110 Volt A. C. Regular. For 220 or Any Special Voltage on Request.

Cast Aluminum Pot, with Cast Aluminum Container

| Nos. | 601 | 602 | 603 | 604 | 605 | 606 |
|----------------|---------|-------|----------|--------|--------|--------|
| Capacity | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. | 2 Gal. | 5 Gal. |
| Initial Amp. | 1 | 2 | 3 | 4 | 5 | 7 |
| Working Amp. | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 3 1/4 |
| Wt. Each, Lbs. | 3 | 3 3/4 | 6 | 10 1/4 | 16 | 17 3/4 |
| Each | \$14.50 | 16.75 | 19.25 | 29.10 | 40.00 | 60.00 |

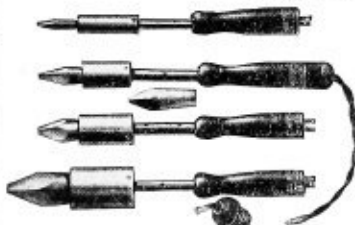
Note—No. 606, 5 Gallon Size, Not Furnished with Container.

By actual test and meter record, figuring the cost of current at the extremely high rate of 5 cents per K. W. hour, the No. 602 quart pot can be operated for a full eight hour day for 3 cents. All glue is used, none wasted by boiling, burning or overcooking. Hours of time are saved, glue is always at correct heat.

One in a Carton.

ELECTRIC SOLDERING IRONS

STA-WARM



Grey Iron Non-Corroding Socket, Extra Heavy Patented Heating Element, Looped Wiring, Strong Nickel-plated Steel Tube Drilled for Heat Radiation, Ebonized Hardwood Handle, First Quality Copper Tip, 110 Volts A. C. Regular.

Complete with 7 Ft. Cord and Separable Plug

| Nos. | 701 | 702 | 703 | 704 |
|-------------------|--------|-------|-------|-------|
| Tip, Inches | 3/8 | 3/4 | 1 | 1 1/2 |
| Watts | 100 | 175 | 250 | 350 |
| Weight Each, Lbs. | 1 1/2 | 1 3/4 | 2 1/4 | 3 1/2 |
| Each | \$4.50 | 7.00 | 9.00 | 14.00 |

One in a Box, Six in a Carton.

WHITE CROSS

Nichrome Wire Element, Best Materials Throughout, Hardwood Handle, 110 Volts.



Complete with Cord and Separable Plug

No. 670—12 3/4 in. Long, Weight Each About 1 1/4 Lbs. **\$2.00**

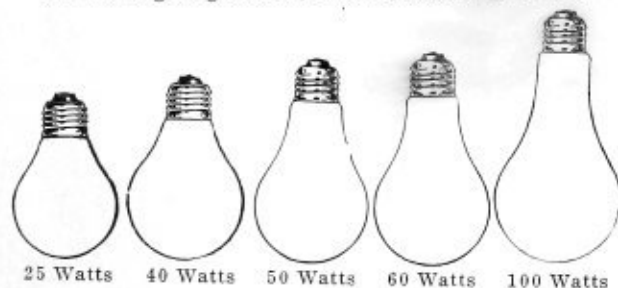
Heats in less than 5 minutes. Ideal for repair and radio work.

One in a Box.

INCANDESCENT LAMPS

WESTINGHOUSE MAZDA

General Lighting Service, for 110, 115 and 120 Volts



| Watts | Approximate Lumens | Bulb | Length, Inches | Each |
|-------|--------------------|------|----------------|--------|
| 10 | 70 | S-14 | 3 1/2 | \$0.27 |

New Standard, Inside Frosted, Medium Screw Base

| Watts | Bulb | Length, In. | Each |
|-------|------|-------------|--------|
| 15 | A-17 | 3 5/8 | \$0.27 |
| 25 | A-19 | 3 1/2 | .27 |
| 40 | A-21 | 4 7/8 | .27 |
| 50 | A-21 | 4 1/2 | .29 |
| 60 | A-21 | 5 1/4 | .32 |
| 100 | A-23 | 6 7/8 | .45 |

10 to 60 Watt, 120; 100 Watt, 24 in a Standard Package.



Round Bulb, Type B, Outside Frosted, Medium Screw Base

| Watts | Bulb | Length, In. | Each |
|-------|----------|-------------|--------|
| 15 | G-18 1/2 | 3 3/8 | \$0.40 |
| 25 | G-18 1/2 | 3 1/2 | .40 |
| 25 | G-25 | 4 1/8 | .50 |
| 40 | G-25 | 4 1/4 | .50 |

G-18 1/2 Bulb Lamps, 120; G-25 Bulb Lamps, 60 in Standard Package.



Colored Lamps (Coated)

Flametint Lamps give a soft tinted lighting effect often desirable in homes, hotels, theatres, etc.

Substantially all the color effects required for decorative and display lighting in theatres, restaurants, signs, etc., can be produced by the colored and tinted lamps listed below.

New Standard, Medium Screw Base

| Watts | Bulb | Length, In. | Each |
|-------|------|-------------|--------|
| 15 | A-17 | 3 5/8 | \$0.32 |
| 25 | A-19 | 3 1/2 | .32 |
| 40 | A-21 | 4 7/8 | .32 |
| 50 | A-21 | 4 1/2 | .34 |
| 60 | A-21 | 5 1/4 | .37 |

Red, Blue, Green, Yellow and Amber-Orange Colors

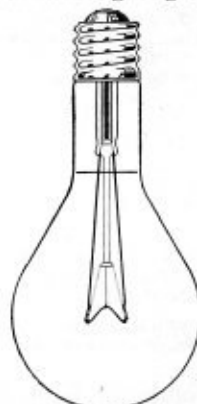
| Watts | Bulb | Length, In. | Each |
|-------|------|-------------|--------|
| 15 | A-17 | 3 5/8 | \$0.37 |
| 25 | A-19 | 3 1/2 | .37 |
| 40 | A-21 | 4 7/8 | .37 |
| 50 | A-21 | 4 1/2 | .39 |

120 in a Standard Package.

INCANDESCENT LAMPS

WESTINGHOUSE MAZDA

General Lighting Service, for 110, 115 and 120 Volts



300 Watt Clear.



300 Watt White Bowl

| Watts | Approximate Lumens | Bulb | Length, Inches | Each |
|-------|--------------------|-------|----------------|--------|
| 150 | 2300 | PS-25 | 6 1/2 | \$0.60 |
| 200 | 3200 | PS-30 | 8 1/2 | .80 |
| 300 | 5200 | PS-35 | 9 1/2 | \$1.25 |
| 500 | 9400 | PS-40 | 9 1/2 | 2.00 |
| 750 | 15000 | PS-52 | 13 1/2 | 3.50 |
| 1000 | 21000 | PS-52 | 13 1/2 | 3.75 |

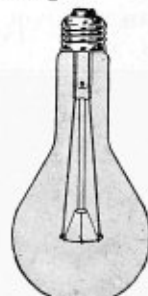
| Watts | Bulb | Length, In. | Each |
|-------|---|-------------|--------|
| 150 | Type C, White Bowl, Medium Screw Base PS-25 | 6 1/2 | \$0.65 |
| 200 | PS-30 | 8 1/2 | .85 |

| Watts | Bulb | Length, In. | Each |
|-------|--|-------------|--------|
| 300 | Type C, White Bowl, Mogul Screw Base PS-35 | 9 1/2 | \$1.35 |
| 500 | PS-40 | 9 1/2 | 2.15 |
| 750 | PS-52 | 13 1/2 | 3.70 |
| 1000 | PS-52 | 13 1/2 | 3.95 |

150 to 300 Watt, 24; 500 Watt, 12; 750 and 1000 Watt, 8 in a Standard Package.



A-Bulb.



PS-Bulb.

| Watts | Bulb | Length, In. | Each |
|---|--|-------------|--------|
| 60 | A-21 | 4 1/2 | \$0.52 |
| 100 | A-23 | 6 1/2 | .75 |
| 60 Watt, 120; 100 Watt, 60 in a Standard Package. | | | |
| 50 | Type C, Daylight Blue, Medium Screw Base PS-20 | 5 7/8 | .60 |
| 75 | PS-22 | 5 7/8 | .65 |
| 100 | PS-25 | 6 1/2 | .75 |
| 150 | PS-25 | 6 1/2 | 1.00 |
| 200 | PS-30 | 8 1/2 | 1.30 |

Type C, Daylight Blue, Mogul Screw Base

| Watts | Bulb | Length, In. | Each |
|-------|-------|-------------|------|
| 300 | PS-35 | 9 1/2 | 1.85 |
| 500 | PS-40 | 9 1/2 | 2.85 |

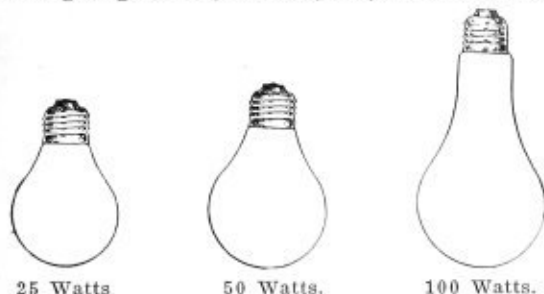
Mazda C Daylight Lamps have bulbs made of a special blue glass to produce light approximating average daylight quality.

50 and 75 Watt, 60; 100 to 300 Watt, 24; 500 Watt, 12 in a Standard Package.

INCANDESCENT LAMPS

WESTINGHOUSE MAZDA

Special Lighting Service, For 220, 230, 240 and 250 Volts



25 Watts.

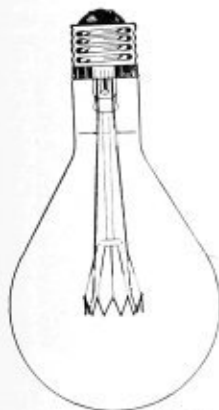
50 Watts.

100 Watts.

New Standard, Inside Frosted, Medium Screw Base

| Watts | Bulb | Length, In. | Each |
|-------|------|-------------|--------|
| 25 | A-19 | 3 1/2 | \$0.32 |
| 50 | A-21 | 4 7/8 | .32 |
| 100 | A-23 | 6 1/2 | .55 |

25 and 50 Watts, 120; 100 Watts, 24 in a Standard Package.



The 750 and 1000 Watt Lamps in the list below are designed for base up burning position. Lamps ordered for base down burning position may be supplied at the same price.

| Watts | Approx. Lumens | Bulb | Length, Inches | Each |
|-------|----------------|-------|----------------|--------|
| 200 | 2600 | PS-30 | 8 1/2 | \$1.00 |

Type C, Clear, Mogul Screw Base

| | | | | |
|------|-------|-------|--------|--------|
| 300 | 4300 | PS-35 | 9 7/8 | \$1.50 |
| 500 | 8200 | PS-40 | 9 1/2 | 2.40 |
| 750 | 13000 | PS-52 | 13 1/2 | 4.00 |
| 1000 | 18000 | PS-52 | 13 1/2 | 4.50 |

| Watts | Bulb | Length, In. | Each |
|-------|-------|-------------|--------|
| 200 | PS-30 | 8 1/2 | \$1.10 |

Type C, White Bowl, Mogul Screw Base

| | | | |
|------|-------|--------|--------|
| 300 | PS-35 | 9 7/8 | \$1.60 |
| 500 | PS-40 | 9 1/2 | 2.55 |
| 750 | PS-52 | 13 1/2 | 4.25 |
| 1000 | PS-52 | 13 1/2 | 4.75 |

All Above, 200 and 300 Watt, 24; 500 Watt, 12; 750 and 1000 Watt, 8 in a Standard Package.

General Lighting Service, For 110, 115 and 120 Volts
Decorative Lamps

All Frosted, Candelabra Screw Base

| Watts | Bulb | Length, In. | Each |
|-------|------|-------------|--------|
| 15 | D-10 | 3 3/8 | \$0.50 |

Sixty in a Standard Package.

INCANDESCENT LAMPS

WESTINGHOUSE MAZDA

General Lighting Service, For 110, 115 and 120 Volts



25 Watts.



40 Watts.

Type B, Tubular Clear, Medium Screw Base

| Watts | Bulb | Length, In. | Each |
|-------|------|-------------|--------|
| 25 | T-10 | 5 3/8 | \$0.45 |
| 40 | T-8 | 11 3/8 | 1.15 |

25 Watts, 60; 40 Watts, 24 in a Standard Package.

MAZDA LAMPS

A Mazda lamp is always the product of the latest and best methods of incandescent lamp making. The filaments of all Mazda lamps are at present made of tungsten. When any more suitable product is discovered or developed it will be used.

In a Mazda B Lamp the filament operates in a vacuum. In a Mazda C Lamp the filament operates in an inert gas.

The New Standard Line

These new lamps represent the latest development in incandescent lamp manufacture. Outstanding points of superiority over all other types are:

1. **Easily Cleaned**—The frosting is on the inside and the bulb therefore does not gather dirt.
2. **Better Lighting**—Splendid diffusion is obtained with such small loss of light that these lamps are to be used in place of all clear as well as frosted lamps.
3. **Stronger**—These lamps are much more rugged than the lamps they will supersede. Breakage will be appreciably less.
4. **Attractive Appearance**—The pearl-gray bulb is pleasing in appearance and harmonizes with any background color.
5. **Simplified Stocks**—Five types replace more than forty old types and sizes in the 115 volt class.

NOTE

We are glad to quote and are able to supply Westinghouse Mazda Lamps for any purpose not shown above. We carry in stock a complete line for country home lighting service at 28-32 volts; also decorative lamps in medium and candelabra base in both Flametint and Frosted.

FRICTION TAPE

BULL DOG

A quick repeating tape for the electrical, hardware, sporting goods, auto, bike and general trade.

Free from pin holes and other defects.

Put up in neat counter display cartons.

Wrapped in tinfoil.



| | | | | |
|-------------------------|--------|-----|-----|-----|
| Size Rolls, Oz. | 1 | 2 | 4 | 8 |
| Rolls in Carton | 32 | 16 | 16 | 8 |
| Weight Per Carton, Lbs. | 2 | 2 | 4 | 4 |
| Per Pound | \$0.60 | .60 | .60 | .60 |

YALE FLASHLIGHTS

The advent of the Yale Line marks the beginning of a new era in flashlight construction. In a class by itself, the Yale is the Masterpiece of Flashlights.

All Yale Lens Rings are drawn from finest quality sheet brass, octagon in shape with smooth, slightly rounded edges. Bulls eye lenses are moulded from highest quality clear glass, hand ground and polished. Flat type lenses are made from finest quality French plate, hand beveled. Reflectors are scientifically designed and heavily silver plated. The head assembly combines all parts into a single unit, while the bulb assembly insures perfect alignment, affords long life and makes bulb renewal simplicity itself. The new patented Contact Box with Locking Device gives a contact mechanism wonderfully smooth in action, durable, designed for service.

Nickel Case—Extra heavy, finest quality brass used throughout, highly polished, triple nickel plated finish.

Fibre Cases—Patented Wireless Fibre Case made of well seasoned, specially treated fibre with handsomely corrugated surface, will withstand the hardest usage and are absolutely moisture proof.

All Flashlights are Furnished with Bulb Only. Batteries are Extra and Not Sent Unless Ordered

TUBULAR TYPE



No. 2101

Corrugated Fibre Case, Nickel Plated Trimmings

| | Each |
|--|--------|
| No. 2001—5% x 1% in., without Battery..... | \$1.25 |
| No. 101—Yale Mono-Cell (2 Required)..... | .15 |
| No. 11—Renewal Mazda Lamp, 2.33 Volts..... | .12 |
| No. 2101—6% x 1% in., without Battery..... | 1.50 |
| No. 102—Yale Mono-Cell (2 Required)..... | .17 |
| No. 16—Renewal Mazda Lamp, 2.4 Volts..... | .12 |
| No. 3101—9% x 1% in., without Battery..... | 1.75 |
| No. 102—Yale Mono-Cell (3 Required)..... | .17 |
| No. 17—Renewal Mazda Lamp, 3.6 Volts..... | .12 |



No. 2102

Nickel Plated Brass Case

| | Each |
|--|--------|
| No. 2002—5% x 1% in., without Battery..... | \$1.25 |
| No. 101—Yale Mono-Cell (2 Required)..... | .15 |
| No. 11—Renewal Mazda Lamp, 2.33 Volts..... | .12 |
| No. 2102—6% x 1% in., without Battery..... | 1.50 |
| No. 102—Yale Mono-Cell (2 Required)..... | .17 |
| No. 16—Renewal Mazda Lamp, 2.4 Volts..... | .12 |

MINER TYPE



No. 2103

Corrugated Fibre Case, Nickel Plated Trimmings

| | Each |
|--|--------|
| No. 2003—6x1 1/4 in., without Battery..... | \$1.45 |
| No. 101—Yale Mono-Cell (2 Required)..... | .15 |
| No. 11—Renewal Mazda Lamp, 2.33 Volts..... | .12 |
| No. 2103—6 3/8 x 2 1/2 in., without Battery..... | 2.00 |
| No. 102—Yale Mono-Cell (2 Required)..... | .17 |
| No. 16—Renewal Mazda Lamp, 2.4 Volts..... | .12 |



Nickel Plated Brass Case.

| | Each |
|--|--------|
| No. 2004—6x1 1/4 in., without Battery..... | \$1.45 |
| No. 101—Yale Mono-Cell (2 Required)..... | .15 |
| No. 11—Renewal Mazda Lamp, 2.33 Volts..... | .12 |

FOCUSING SEARCHLIGHT TYPE



Corrugated Fibre Case, Nickel Plated Trimmings

| | Each |
|--|--------|
| No. 3205—9 1/4 x 3 3/8 in., without Battery..... | \$4.00 |
| No. 102—Yale Mono-Cell (3 Required)..... | .17 |
| No. 13—Renewal Mazda Concentrated Lamp, 3.6 Volts..... | .15 |

SPOTLIGHT TYPE

Throws a Clear, Sharp Beam of Light Over 300 Feet

The focusing type flashlight with its clear, sharp beam has caught the popular fancy. The Yale Spotlight is designed for service and is a Spotlight you can really focus.

It has all the patented Yale features with a bulb that has a specially designed concentrated filament to give most powerful light beams. The Yale patented focusing adjustment makes it simple to train this light on a given object until exact range is obtained.

The mechanism cannot work loose. It is a compact unit at the head of the light. Can be used as a regular flashlight and by unscrewing focusing device the Yale can be placed on a table and used as a candle light.



No. 3201

Corrugated Fibre Case, Nickel Plated Trimmings

| | Each |
|--|--------|
| No. 2201—6 1/2 x 2 1/2 in., without Battery..... | \$2.40 |
| No. 102—Yale Mono-Cell (2 Required)..... | .17 |
| No. 14—Renewal Mazda Concentrated Lamp, 2.4 Volts..... | .15 |
| No. 3201—8% x 2 1/2 in., without Battery..... | 3.00 |
| No. 102—Yale Mono-Cell (3 Required)..... | .17 |
| No. 13—Renewal Mazda Concentrated Lamp, 3.6 Volts..... | .15 |



Nickel Plated Brass Case

| | Each |
|--|--------|
| No. 3202—8% x 2 1/2 in., without Battery..... | \$3.00 |
| No. 102—Yale Mono-Cell (3 Required)..... | .17 |
| No. 13—Renewal Mazda Concentrated Lamp, 3.6 Volts..... | .15 |

ELECTRIC LANTERNS

SUPREME

Complete with Three Unit Cells and Mazda Bulb

| | Each |
|---|--------|
| No. 100—8 in. High, 5 in. Wide, Burns 12 Continuous Hours or 6 Months Intermittent, Weight Each without Battery 2 Lbs. | \$2.50 |

Has screw bottom and screw top globe, heavy switch lever and heavy wire bail. Wire guard protects bulb.

An electric light whenever and wherever needed. Throws a big bright light in every direction without shadows. The ideal portable light for motorists, campers, fishermen, farmers and around the home. Hangs or sits anywhere, leaving both hands free. No fire danger, no spilling, weather-proof.

One in a Carton.



FLASHLIGHT BATTERIES

YALE MONO-CELL

Fit All Standard Tubular Flashlights



The drapper or cardboard jacket is made integral with the battery itself—cannot separate from the battery and permit it to slide from the wrapper. It is positively and hermetically sealed and impossible to short circuit.

The two sizes shown will supply 95% of flashlight battery requirements and eliminates the usual complexity of stock.



Each

No. 101—1 Cell, 1 1/2 in. High by 1 in. Diameter, 4 Months' Shelf Life.....\$0.15

No. 102—1 Cell, 2 3/4 in. High by 1 1/4 in. Diameter, 6 Months' Shelf Life......17

Thirty in a Unit Package.

2 No. 101 Mono-Cells Equivalent to 1 No. 110 Battery.

2 No. 102 Mono-Cells Equivalent to 1 No. 111 Battery.

3 No. 102 Mono-Cells Equivalent to 1 No. 112 Battery.

YALE TUBULAR



| Nos. | 110 | 111 | 112 | 113 |
|----------------|--------|-------|-------|-------|
| No. of Cells.. | 2 | 2 | 3 | 2 |
| Height, In.... | 3 3/4 | 4 3/4 | 7 | 3 3/4 |
| Diam., In.... | 1 | 1 1/4 | 1 1/4 | 1 1/4 |
| Each | \$0.30 | .35 | .50 | .25 |

YALE VESTPOCKET

| Nos. | 114 | 115 | 116 | 117 |
|----------------|--------|-------|-------|-------|
| No. of Cells.. | 2 | 2 | 3 | 3 |
| Height, In.... | 1 7/8 | 2 1/4 | 2 1/4 | 2 5/8 |
| Width, In.... | 1 1/8 | 1 1/4 | 1 1/4 | 2 1/8 |
| Depth, In.... | 1/2 | 5/8 | 5/8 | 3/4 |
| Each | \$0.30 | .30 | .40 | .40 |

YALE BOX TYPE

| Nos. | 118 | 119 | 120 | 121 |
|----------------|--------|-------|-------|-------|
| No. of Cells.. | 3 | 5 | 2 | 3 |
| Height, Inches | 3 | 3 | 2 1/2 | 3 |
| Width, Inches | 3 7/8 | 3 5/8 | 1 5/8 | 3 |
| Depth, Inches | 1 1/8 | 3 3/8 | 1 1/8 | 2 1/2 |
| Each | \$0.65 | .110 | .30 | .65 |

FLASHLIGHT LAMPS

Cuts Half Size.



Nos. 1, 2 13, 14 11 16, 17, 19 31

All Clear, Miniature Screw Base

| | | | | |
|---------|----------|----------|---------|---------|
| Nos. | 1 | 2 | 11 | 13 |
| Bulb | FE-3 3/4 | FE-3 3/4 | G-3 1/2 | G-3 1/2 |
| Amperes | .25 | .25 | .27 | .29 |
| Volts | 2.2 | 3.3 | 2.33 | 3.6 |
| Each | \$0.12 | .12 | .12 | .15 |
| Nos. | 14 | 16 | 17 | |
| Bulb | G-3 1/2 | G-4 1/2 | G-4 1/2 | G-4 1/2 |
| Amperes | .31 | .29 | .29 | |
| Volts | 2.4 | 2.4 | 3.6 | |
| Each | \$0.15 | .12 | .12 | |
| Nos. | 19 | 31 | 35 | |
| Bulb | G-4 1/2 | G-4 1/2 | G-5 1/2 | |
| Amperes | .60 | .29 | .80 | |
| Volts | 1.25 | 6.0 | 2.4 | |
| Each | \$0.12 | .15 | .12 | |

Note—Care should be taken in ordering that the correct lamp is specified for the particular type of battery which the lamp is to be operated on.

Ten in a Unit Package.

RADIO BATTERIES

YALE POWERPACK "A"



A single six inch Dry Cell especially selected for Radio use, equipped with one positive and one negative binding post. Two of these may be used to operate a single WD11 or similar dry cell vacuum tube.

Each

No. 101R—1 1/2 Volts, 1 Cell, 2 3/4 x 2 3/4 x 6 1/2 in., Weight Each 2 3/4 Lbs.....\$0.45

YALE "B"

When 45 volts are required, it is preferable to use this battery rather than two 22 1/2 volt batteries.

It contains thirty large cells and is very convenient as it can be used for detector tube control as well as for amplifiers.



Equipped with one negative and six positive spring clips giving 16 1/2 to 22 1/2 volts in 1 1/2 volt steps for detector tubes and a 45 volt tap for amplifier tubes.

Each

No. 3045—45 Volts, 30 Cells, 7 3/8 in. Long, 6 5/8 in. Wide, 3 1/8 in. High, Weight Each 7 1/2 Lbs.....\$3.75

THERMOMETERS

AMERICAN

Armco Metal Steel Frame

White Porcelain Enameled Both Sides. Raised Scale. Black Enameled Guard. Black Figures on Scale.

Magnifying Red Spirit Filled Tube, with Milk Back

Per Dozen

No. 100—9x2 1/4 in., Approximate Scale Range 20° Below to 120° Above Zero, Weight Per Dozen About 5 1/2 Lbs.....\$14.40

No. 100.

No. 101.

Armco Metal Steel Frame

White Porcelain Enameled Both Sides, Black Enameled Guard. Black Figures on Scale.

Magnifying Red Spirit Filled Tube, with Milk Back

Per Dozen

No. 101—7x2 in., Approximate Scale Range 40° Below Zero to 120° Above, Weight Per Dozen About 4 1/2 Lbs.....\$13.00

Steel Frame

White Enameled Throughout, Black Enameled Numerals and Division Marks on Scale.

Magnifying Red Spirit Filled Tube (Non-Fading)

Per Dozen

No. 75—5 1/2 x 1 1/4 in. Approximate Scale Range, Zero to 120° Above, Weight Dozen About 3 1/2 Lbs.....\$8.00

A real household thermometer. Easy to clean.

All Above, One Dozen in a Box.

THERMOMETERS

JAPANNED TIN CASE



Ordinary Grade

Lithographed Tin Scale, Black Figures and Graduations, Black Japped Tin Case, Approximate Scale Range 20° to 60° Below Zero to About 120° F. Above.

Magnifying Permacolor Filled Tube (Easy Reading and Non-Fading)

No. 5440-S/8
Length, Inches ... 8
Wt. Dozen, Lbs. ... 1 1/4
Per Dozen \$3.00
One Dozen in a Box.

Selected Ordinary Grade

Black Oxidized Brass Scale, White Filled Figures and Graduations, Black Japped Tin Case, Approximate Scale Range 20° to 60° Below Zero to 120° F. Above.

Magnifying Permacolor Filled Tube (Easy Reading and Non-Fading)

No. 5420-S/8
Length, Inches ... 8
Wt. Dozen, Lbs. ... 2 1/2
Per Dozen \$12.00
No. 5420-S/10
Length, Inches ... 10
Wt. Dozen, Lbs. ... 3 1/2
Per Dozen \$15.00
One Dozen in a Box.

COPPER CASE

Best Grade

Black Oxidized Brass Scale, White Filled Figures and Graduations, Approximate Scale Range 10° to 40° Below Zero to 120° F. Above.

Magnifying Distilled Mercury Filled Tube

No. 5400-P/10
Length, Inches ... 10
Wt. Dozen, Lbs. ... 6
Per Dozen \$30.00
No. 5400-P/12
Length, Inches ... 12
Wt. Dozen, Lbs. ... 8
Per Dozen \$33.00
One in a Box, One-half Dozen in a Carton.

WOOD BACK

Ordinary Grade

Black Lithographed Tin Scale, White Filled Figures and Graduations, Walnut Finished Wood Back, Approximate Scale Range 20° to 60° Below Zero to 120° F. Above.

Magnifying Permacolor Filled Tube (Easy Reading and Non-Fading)

No. 5140-S/8
Length, Inches ... 8
Wt. Dozen, Lbs. ... 3 1/2
Per Dozen \$6.50
No. 5140-S/10
Length, Inches ... 10
Wt. Dozen, Lbs. ... 5
Per Dozen \$9.00
One in a Box, One Dozen in a Carton.

THERMOMETERS

WOOD BACK



Ordinary Grade

Blue, Green and Black Assorted Metal Scales, Nickel Plated Straps and Bulb Guard, Gray Finished Wood Back, Approximate Scale Range 20° to 60° Below Zero to 120° F. Above.

Magnifying Permacolor Filled Tube (Easy Reading and Non-Fading)

No. 5151-S/8
Length, Inches ... 8
Wt. Dozen, Lbs. ... 3
Per Dozen \$9.00
One Dozen in a Carton.

Best Grade

Black Oxidized Bevel-Edged Brass Scale, White Filled Figures and Graduations, Gold Plated Screws, Tube-Clasps and Bulb Guard, Natural Oak Finished Wood Back, Approximate Scale Range 20° to 60° Below Zero to 120° F. Above.

Magnifying Permacolor Filled Tube (Easy Reading and Non-Fading)

No. 5100-S/8
Length, Inches ... 8
Wt. Dozen, Lbs. ... 5
Per Dozen \$22.00
No. 5100-S/10
Length, Inches ... 10
Wt. Dozen, Lbs. ... 7
Per Dozen \$26.00
One-half Dozen in a Carton.

DISTANCE READING

Selected Ordinary Grade

Black Oxidized Brass Scale, White Filled Figures and Graduations, Coppered Metal Case, Approximate Scale Range 20° to 60° Below Zero to 120° F. Above.

Magnifying Permacolor Filled Tube (Easy Reading and Non-Fading)

No. 5154-S/8
Length, Inches ... 8
Wt. Dozen, Lbs. ... 3 1/4
Per Dozen \$10.00
One Dozen in a Carton.

DAIRY

Selected Ordinary Grade

Brass Scale, Engraved Figures and Graduations, Sliding Bulb Guard, Flanged Metal Case, Approximate Scale Range 20° to 220° F.

White Back Permacolor Filled Tube (Easy Reading and Non-Fading)

Per Dozen
No. 5740-S—8 in. Long,
Wt. Dozen 4 Lbs. \$11.00
One in a Box, One Dozen in a Carton.

THERMOMETERS

BATH

Medium Grade

Nickel Plated Metal Scale, White Enamelled Wood Frame with Shaped Handle, Approximate Scale Range 30° to 150° F.

Magnifying Permacolor Filled Tube (Easy Reading and Non-Fading)

Per Dozen
No. 5607-S—12 in. Long,
Weight Per Dozen 4 1/2
Lbs. \$18.00
One in a Box, One Dozen in a Carton.



REGISTERING

Best Grade

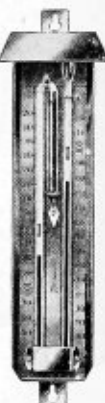
Lacquered Polished Brass Scale, White Filled Figures and Graduations, Black Japped Tin Case, Approximate Scale Range 10° to 30° Below Zero to 120° F. Above.

Mercury Filled Tube

Per Dozen
No. 5452—8 in. Long,
Weight Per Dozen 8
Lbs. \$84.00

Set by drawing the "index" in each side of the mercury column, by use of the magnet furnished with each thermometer. As the temperature fluctuates after the thermometer has been set, the mercury will rise in one side or the other, leaving the index in each case to show what has been the greatest degree of heat or cold since the last setting.

One in a Box.



INCUBATOR



Black Oxidized Brass Scale, White Filled Figures and Graduations.

Plain Glass Tubes Filled with Distilled Mercury. Has Flange on Upper Edge of Scale to Hook Over Wire or Metal Strip if Used without the Stand.

Per Dozen
No. 5783—Angle Pattern, 4 in. Long, with Metal Stand,
Weight Dozen 1 1/4 Lbs. \$14.00
One Dozen in a Carton.



PREPARED PAINT

PIONEER



Nevin
QUALITY

For the greater part of a century "Pioneer" Prepared Paint has been marketed as the best mixed paint that could be made. As an exterior and interior finish, it has proven durable, attractive and, as it gradually wears away, leaves a surface entirely suitable for repainting.

The formula on which "Pioneer" Prepared Paint is manufactured has kept step with every improvement in the paint industry and is today looked upon as the same high grade finish that it was years ago. From the standpoint of durability, covering capacity, hiding power and even wearing qualities, "Pioneer" is by far the most economical paint on the market.

Colors

| | | | |
|----------------------|------------------------|---------------------|--------------------|
| *Outside White | No. 14—Colonial Yellow | No. T-1—Brown | No. 18—Ivory |
| *Outside Flat White | No. 89—Buff | No. 72—Pink | No. 8—Light Gray |
| *Inside White | No. 63—Light Yellow | No. 31—Fawn | No. B-1—Light Lead |
| *Inside Gloss White | No. 40—Terra Cotta | No. 5—Slate | No. B-2—Lead Color |
| *Moss Green | No. 102—Tan | No. 80—Brown | No. B-3—Bluestone |
| **No. 401—Green | No. 93—Maroon | No. 42—Steel Blue | No. 20—Medium Blue |
| **No. 305—Cherry Red | No. 92—Morocco Brown | No. 17—Cream White | No. 7—Pure Brown |
| **No. 402—Blue | No. 38—Medium Green | No. 64—Olive Green | No. 92—Light Green |
| No. 104—Black | No. 81—Red | No. 23—Bottle Green | No. 97—Swiss Green |
| No. R-1—Straw | No. 82—Marvel | | |

| Size of Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|-------------------|----------------|-------|-------|----------|--------|
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 20 | 30 | 60 | 60 | 120 |
| Regular Shades | Per Can \$0.50 | .90 | 1.60 | 3.00 | 5.65 |
| No. 104—Black | Per Can .50 | .90 | 1.60 | 3.00 | 5.65 |

*Add 10 cents per gallon to above prices for these colors.

**Add 30 cents per gallon to above prices for these colors.

Note—5 gallon cans, 5 cents; half barrels, 15 cents; barrels, 25 cents per gallon less than 1 gallon can prices.

Color Cards Furnished on Request



KEYSTONE

A high quality product made on a scientific formula. All materials entering into the manufacture of "Keystone" paint must first pass chemical laboratory tests so no inferior grade of material can find its way into a "Keystone" paint can.

"Keystone" paint has established itself as a protective coating for interior or exterior work of real merit. It wears well, covers most satisfactorily and after years of wear still leaves the surface in excellent condition for repainting.

"Keystone" paint is offered on a quality basis and is not to be confused at all with the cheap third and fourth grade paints on the market under various names and of questionable quality.

Colors

| | | | |
|-----------------------------|-------------------------|---------------------|----------------------|
| *No. 370—Outside White | No. 363—Light Yellow | No. 348—Rose | No. 367—Lead |
| *No. 366—Inside Gloss White | No. 384—Tan | No. 372—Pink | No. 305—Slate |
| *No. 362—Moss Green | No. 380—Princess Brown | No. 331—Fawn | No. 320—Light Blue |
| **No. 353—Green | No. 341—Cream | No. 340—Terra Cotta | No. 393—Maroon |
| **No. 361—Cherry Red | No. 314—Colonial Yellow | No. 318—Ivory | No. 390—Light Green |
| **No. 352—Blue | No. 382—Light Fawn | No. 308—Light Gray | No. 338—Medium Green |
| Black | No. 389—Buff | No. 345—Silver Gray | No. 364—Olive Green |

| Size of Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|-------------------|----------------|-------|-------|----------|--------|
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 18 | 27 | 54 | 54 | 108 |
| Regular Shades | Per Can \$0.40 | .75 | 1.30 | 2.50 | 4.60 |
| Black | Per Can .40 | .75 | 1.30 | 2.50 | 4.60 |

*Add 10 cents per gallon to above prices for these colors.

**Add 30 cents per gallon to above prices for these colors.

Note—5 gallon cans, 5 cents; half barrels, 15 cents; barrels, 25 cents per gallon less than 1 gallon can prices.

Color Cards Furnished on Request

BARN AND ROOF PAINT

PIONEER PURE LINSEED OIL



From the standpoint of durability and appearance, no better paint can be made.

Highest grade red oxide ground and reduced in pure linseed oil with the addition of the necessary drier, insures long wear, great covering and an appearance that is truly satisfying.

Red Only

| | | | | |
|----------------------|------------|------------|--------|--------|
| Size Packages..... | 1 Gal. Can | 5 Gal. Can | ½ Bbl. | 1 Bbl. |
| Packages in Case.... | 6 | 1 | .. | .. |
| Weight Case, Lbs.... | 85 | 70 | 365 | 725 |
| Per Gallon | \$4.45 | 4.40 | 4.30 | 4.20 |



NEVIN METALLIC

A red oxide metallic paint suitable for any exterior surface where color is of less importance than wearing quality. Manufactured from a durability standpoint to give dollar for dollar value.

Price Per Gallon

| | | | | |
|----------------------|------------|------------|--------|--------|
| Size Packages..... | 1 Gal. Can | 5 Gal. Can | ½ Bbl. | 1 Bbl. |
| Packages in Case.... | 6 | 1 | .. | .. |
| Weight Case, Lbs.... | 85 | 70 | 365 | 725 |
| No. M-81—Red | \$2.55 | 2.50 | 2.40 | 2.30 |
| No. M-74—Brown.... | 2.55 | 2.50 | 2.40 | 2.30 |
| No. M-5—Slate..... | 2.80 | 2.75 | 2.65 | 2.55 |
| No. M-104—Black.... | 2.80 | 2.75 | 2.65 | 2.55 |
| No. M-10—Gray..... | 3.20 | 3.15 | 3.05 | 2.95 |
| No. M-304—Green.... | 3.20 | 3.15 | 3.05 | 2.95 |

Color Cards Furnished on Request.

PIONEER BLACK ASBESTOS

A combination of durable oils, gilsonite, pine tar and long fiber asbestos. Can be applied to old or new roofs of any kind. Waterproofs and preserves.

| | | | | |
|----------------------|------------|------------|--------|--------|
| Size Packages..... | 1 Gal. Can | 5 Gal. Can | ½ Bbl. | 1 Bbl. |
| Packages in Case.... | 6 | 1 | .. | .. |
| Weight Case, Lbs.... | 85 | 70 | 365 | 725 |
| Per Gallon | \$1.40 | 1.15 | 1.10 | 1.00 |

ROOF CEMENT

BLACK ASBESTOS FIBER

For patching roofs, coating skylights, fire walls and wherever waterproofing is necessary.

| | | | | |
|-------------------|-----------|-----------|------------|----------|
| Size Packages.... | 1 Lb. Can | 8 Lb. Can | 40 Lb. Can | Lb. Bbl. |
| Pkgs. in Case.... | 12 | 6 | 1 | .. |
| Per Pound..... | \$0.20 | .15 | .13½ | .11 |

SHINGLE STAIN

PIONEER



A high grade creosote oil into which has been incorporated a high grade of permanent colors. Preserves and beautifies any wood surface.

Colors

| | |
|----------------------|--------------------------|
| Nos. | Nos. |
| 301—Light Moss Green | 308—Silver Gray |
| 205—Light Brown | 305—Dark Moss Green |
| 320—Dark Red | 208—Light Chestnut Brown |
| 102—Morocco Brown | 209—Chrome Green |
| 144—Dark Walnut | 203—Copper Brown |
| 103—Black | 363—Dark Brown |

| | | | |
|--------------------------|------------|------------|--------|
| Size Packages..... | 1 Gal. Can | 5 Gal. Can | 1 Bbl. |
| Packages in Case.... | 6 | 1 | .. |
| Weight Per Case, Lbs.... | 160 | 50 | 525 |
| Per Gallon | \$2.35 | 2.20 | 1.80 |

Color Cards Furnished on Request.

WALL TONE

PIONEER

Recognized as the standard interior finish by which all other interior finishes are judged.

Wall Tone is a Flat Oil Finish, sanitary, durable, washable. Drying with a very pleasing soft luster. Wall Tone can be stippled, mottled or stenciled and effects produced that are impossible in any other way.



Wall Tone can be applied on any wall surface over plaster, wood or metal, in fact, on most any interior surface and over any sort of a previous coat. It can be used on metal ceilings, radiators, concrete, sanitas, burlap, canvas, old wall paper, window shades, etc. It is not recommended as a substitute for "Pioneer" Enamel Undercoat as an undercoater for enamel.

Colors

| | |
|---------------------|--------------------|
| No. 690—White | No. 834—Ivory |
| No. 861—Pearl Gray | No. 850—Cream |
| No. 872—French Gray | No. 856—Buff |
| No. 851—Pink | No. 857—Tan |
| No. 852—Light Blue | No. 858—Brown |
| No. 853—Light Green | No. 860—Delft Blue |
| No. 854—Olive Green | *No. 859—Crimson |
| No. 855—Dark Green | |

| | | | | | |
|--------------------|--------|-------|-------|--------|--------|
| Size Cans | ½ Pt. | 1 Pt. | 1 Qt. | ½ Gal. | 1 Gal. |
| Cans in Case..... | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs.. | 16 | 25 | 50 | 50 | 100 |
| Per Can | \$0.40 | .65 | 1.25 | 2.40 | 4.40 |

*Add 80¢ per gallon to above prices for No. 859 Crimson.

Color Cards Furnished on Request.

GRAINING COLORS

PIONEER OIL STAIN



Ready mixed for new work or for refinishing old work. "Pioneer" Oil Stain Graining Colors produce a finished effect that is extremely pleasing. Gives a stained and grained effect that is a happy combination.

On old work, it should be applied over a ground color, then combed, stippled or mottled, and, when thoroughly dry, a finishing coat of high grade varnish applied, to result in a perfect job.

On new work, "Pioneer" Oil Stain Graining Color can be applied directly to the wood and after drying for about ten minutes, should be wiped off. The shade, light or dark, is determined by the length of time the stain remains on the wood before being wiped off.

Colors

| | | | | | |
|--------------------|---------------|----------|-------|--------|--------|
| Light Oak | Golden Oak | Mahogany | | | |
| Flemish Oak | Cherry | Walnut | | | |
| Dark Oak | Dark Mahogany | Rosewood | | | |
| Size Cans | ½ Pt. | 1 Pt. | 1 Qt. | ½ Gal. | 1 Gal. |
| Cans in Case..... | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs.. | 10 | 15 | 30 | 30 | 60 |
| Per Can | \$0.50 | .80 | 1.40 | 2.70 | 5.00 |

Color Cards Furnished on Request.

INTERIOR ENAMEL



PIONEER

A high grade enamel that produces a washable glossy finish on any surface.

It can be used not only on wood-work and walls, but on furniture, radiators, where a quick, hard-drying, high gloss finish is desired.

Group No. 1 Colors

| | | |
|--------------|---------------|--------------|
| Blue Gray. | Orange. | Cream. |
| Light Green. | Wicker Brown. | French Gray. |
| Old Rose. | Light Blue. | Medium Green |
| Ivory. | White. | |

Group No. 2 Colors

| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|--------------------------|---------|-------|-------|----------|--------|
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 14 | 21 | 42 | 42 | 84 |
| No. 1 Colors... Per Can. | \$0.55 | .95 | 1.60 | 3.15 | 5.80 |
| No. 2 Colors... Per Can. | .60 | 1.10 | 1.95 | 3.65 | 7.00 |

Color Cards Furnished on Request.

WHITE ENAMEL

NEVIN QUALITY

The highest grade of white enamel on the market. Being made on a high grade oil base, it is a slow drying, long wearing finish of highest quality, very easy to apply, and its yellowing tendencies have been reduced to a minimum.

Can be rubbed to a dull finish and can be tinted to any shade with colors in oil.

| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|-------------------|---------|-------|-------|----------|--------|
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 14 | 21 | 42 | 42 | 84 |
| Per Can | \$0.80 | 1.30 | 2.35 | 4.40 | 8.35 |

ENAMEL UNDERCOAT

PIONEER

A good enamel job depends entirely on the undercoat and "Pioneer" Enamel Undercoat is second to none from a quality standpoint.

Used under either Nevin Quality Enamel or Pioneer Interior Enamel, it insures a job of the highest character. It gives a solid, non-porous surface on which to apply the enamel. May be used as an undercoater on walls or any wood surface.

| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|-------------------|---------|-------|-------|----------|--------|
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 14 | 21 | 42 | 42 | 84 |
| Per Can | \$0.50 | .75 | 1.35 | 2.40 | 4.55 |

GOLD ENAMEL

PIONEER

In Compartment Cans

| Size Cans | 2 Oz. | 1/4 Pt. | 1/2 Pt. | 1 Pt. |
|-----------|--------|---------|---------|-------|
| Per Can | \$0.35 | .55 | .95 | 1.65 |

Twelve Cans in a Carton.

ALUMINUM ENAMEL

PIONEER

In Compartment Cans

| Size Cans | 2 Oz. | 1/4 Pt. | 1/2 Pt. | 1 Pt. |
|-----------|--------|---------|---------|-------|
| Per Can | \$0.35 | .55 | .95 | 1.65 |

Twelve Cans in a Carton.

The liquid and powder are in separate compartments allowing the user to mix his paint as he needs it, eliminating all waste.

AUTOMOBILE ENAMEL

PIONEER



Made from the highest grade of permanent colors, thoroughly ground in a waterproof, durable automobile finishing varnish. Because of the fineness of grinding, "Pioneer" Automobile Enamel levels off to a glass-like surface, giving a high gloss durable finish that is as beautiful and as durable as the original finish on the car.

Entirely suitable for use on store fronts, boats, porch furniture or any surface where a brightly colored high gloss finish is desired.

Colors

| | | | | | |
|------------------------|----------|---------|-------|--------|--------|
| Black. | Gray. | *Blue. | | | |
| Brown. | *Cream. | *White. | | | |
| Green. | *Garnet. | *Clear. | | | |
| Size Cans | ½ Pt. | 1 Pt. | 1 Qt. | ½ Gal. | 1 Gal. |
| Cans in Case..... | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 14 | 21 | 42 | 42 | 84 |
| Per Can | \$0.70 | 1.20 | 2.15 | 4.05 | 7.80 |

*Add 80c per gallon to above prices for these colors.

AUTO TOP DRESSING

PIONEER

For use in refinishing automobile tops and side curtains, producing a jet black gloss finish that is waterproof and pleasing in appearance. Dries hard over night and will not crack or peel.

| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. |
|-------------------|---------|-------|-------|
| Cans in Case | 16 | 12 | 12 |
| Weight Case, Lbs. | 15 | 23 | 45 |
| Per Can | \$0.55 | .90 | 1.60 |

STOVE PIPE ENAMEL

PIONEER



Primarily adapted for stove pipes, iron heaters, gas stoves, furnaces and any interior metal surface to be finished into a high gloss black surface. It stands heat well and will not crack, scale or rub off.

| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. |
|-------------------|---------|-------|-------|
| Cans in Case | 16 | 12 | 12 |
| Weight Case, Lbs. | 14 | 21 | 42 |
| Per Can | \$0.35 | .45 | .65 |

STOVE ENAMEL

PIONEER HEAT RESISTING

Especially recommended for use where a high quality finish is desired on surfaces that become very hot. It dries with a semi-gloss finish that will stand hard wear and high heats. Being quite waterproof, it can be washed or cleaned without marring the finish in any manner.

| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|-------------------|---------|-------|-------|----------|--------|
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 14 | 21 | 42 | 42 | 84 |
| Per Can | \$0.40 | .60 | 1.05 | 1.80 | 3.20 |

NEV-A-LAC BRUSHING LACQUER



Will dry to handle in thirty minutes and is an excellent finish for furniture, toys, doors, floors and most any surface, interior or exterior.

When necessary to thin, use only Lacquer Thinner, nothing else.

Furnished in White, Black, Clear and twelve bright, attractive shades.

| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. |
|----------------------|---------|-------|-------|
| Cans in Case | 16 | 12 | 12 |
| Weight Case, Lbs. | 12 | 20 | 35 |
| All Colors and Clear | \$0.80 | 1.30 | 2.30 |
| Lacquer Thinner | .70 | | |

Color Cards Furnished on Request.

COLORS IN OIL

PIONEER STRICTLY PURE



Have been recognized for over fifty years as the standard for purity, uniformity, strength and fineness of grinding.

KEYSTONE

Extended about one-third and ground in pure linseed oil.

In 1 Pound Cans

| | Pioneer | Keystone |
|---------------------|-----------------|----------|
| Lamp Black | Per Can, \$0.93 | .85 |
| Burnt Umber | Per Can, .64 | .53 |
| Raw Umber | Per Can, .64 | .53 |
| Burnt Sienna | Per Can, .72 | .60 |
| Raw Sienna | Per Can, .72 | .60 |
| Chrome Greens | Per Can, .68 | .57 |
| Chrome Yellows | Per Can, .96 | .85 |
| French Ochre | Per Can, .45 | .45 |
| Venetian Red | Per Can, .45 | .45 |
| Ivory Drop Black | Per Can, .77 | .64 |
| Vandyke Brown | Per Can, .68 | .57 |
| Golden Ochre | Per Can, .45 | .43 |
| Indian Red | Per Can, .73 | .64 |
| Tuscan Red | Per Can, .96 | .83 |
| American Vermillion | Per Can, 1.07 | .93 |
| Rose Pink | Per Can, 1.07 | .93 |
| Rose Lake | Per Can, 1.07 | .93 |
| Graining Colors | Per Can, .53 | |
| Prussian Blue | Per Can, 1.39 | 1.24 |
| Ultramarine Blue | Per Can, .99 | .85 |

24 Cans in a Case.

In 1/2 Pound Cans

| | Pioneer | Keystone |
|------------------|-----------------|----------|
| Prussian Blue | Per Can, \$0.73 | .64 |
| Ultramarine Blue | Per Can, .53 | .47 |

24 Cans in a Case.

In 1/4 Pound Cans

| | Pioneer | Keystone |
|------------------|-----------------|----------|
| Prussian Blue | Per Can, \$0.39 | .35 |
| Ultramarine Blue | Per Can, .28 | .25 |

48 Cans in a Case.

Note—5 Pound Cans, \$0.02; 12 1/2 and 25 Pound Cans, \$0.04 Less Per Pound than One Pound Cans.

DISTEMPER COLORS

PIONEER

High Grade Colors Ground in Water, used to a large extent in Graining Colors.

In Glass Jars

| Size Jars, Lbs. | 1 |
|-----------------|-----------------|
| Jars in Case | 24 |
| Raw Umber | Per Jar, \$0.45 |
| Burnt Umber | Per Jar, .45 |
| Raw Sienna | Per Jar, .48 |
| Burnt Sienna | Per Jar, .48 |
| Light Oak | Per Jar, .48 |
| Dark Oak | Per Jar, .48 |
| Vandyke Brown | Per Jar, .48 |
| Lamp Black | Per Jar, .48 |
| Drop Black | Per Jar, .45 |

DRY COLORS

A complete line of Dry Colors is available at all times.

Prices on Application

LIQUID WOOD FILLER

PIONEER

For use on light woods of close grain such as pine, poplar, gum and birch. It produces a hard, non-porous surface that will hold up succeeding coats of varnish.

| Size Cans | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|-------------------|--------|-------|----------|--------|
| Cans in Case | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 15 | 30 | 30 | 60 |
| Per Can | \$0.60 | 1.00 | 1.80 | 3.20 |

PASTE HARD WOOD FILLER

PIONEER

Manufactured from the best grades of material known. It produces an exceedingly smooth, level surface on open grained woods and can be varnished over in a way that will prove most desirable.

When reduced and used on open grained woods, it should be wiped off before the varnish is applied.

Colors:

| | Light Oak. | Dark Oak. | Golden Oak. |
|-----------------|------------|-----------|-------------|
| Size Cans, Lbs. | 1 | 5 | 12 1/2 |
| Cans in Case | 24 | 6 | 4 |
| Per Pound | \$0.40 | .38 | .36 |

KRAK FILLER

PIONEER

"Pioneer" Krak Filler is very similar to putty and it is used to fill up cracks in floors and the woodwork before refinishing with paint or varnish. It is much superior to putty in that it dries harder and is not so susceptible to shrinking.

| Size Cans, Lbs. | 1 | 5 | 12 1/2 | 25 |
|-----------------|--------|-----|--------|-----|
| Cans in Case | 24 | 6 | 4 | 1 |
| Per Pound | \$0.40 | .37 | .36 | .36 |

JAPAN DRYERS

PIONEER

House Painters

| Size, Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|-------------------|---------|-------|-------|----------|--------|
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 10 | 15 | 30 | 30 | 60 |
| Per Can | \$0.35 | .55 | .90 | 1.55 | 2.70 |

Black Japan

| Size, Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
|-------------------|---------|-------|-------|----------|--------|
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 10 | 15 | 30 | 30 | 60 |
| Per Can | \$0.35 | .50 | .75 | 1.30 | 2.15 |



VARNISHES

PIONEER

Each "Pioneer" Varnish is made for the particular purpose it is offered for and sold on a strict guarantee of satisfaction to the user. It is a quality product in every respect.

Packing and Weights of All Varnishes

| | | | | |
|-------------------|---------|-------|-------|--------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Cans in Case... | 16 | 12 | 12 | |
| Wt. Case, Lbs. | 10 | 15 | 30 | |
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Cans in Case... | 6 | 6 | | |
| Weight Case, Lbs. | 30 | 60 | | |

| | | | | |
|---------------|---------|-------|-------|------------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.90 | 1.55 | 2.90 | 5.55 10.70 |

| | | | | |
|---------------|---------|-------|-------|------------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.90 | 1.55 | 2.90 | 5.55 10.70 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.70 | 1.10 | 1.95 | 3.70 7.00 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.70 | 1.10 | 1.95 | 3.70 7.00 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.70 | 1.10 | 1.95 | 3.70 7.00 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.70 | 1.10 | 1.95 | 3.70 7.00 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.60 | 1.00 | 1.80 | 3.40 6.40 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.60 | 1.00 | 1.80 | 3.40 6.40 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.60 | 1.00 | 1.80 | 3.40 6.40 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.55 | .90 | 1.40 | 2.70 4.80 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.55 | .90 | 1.40 | 2.70 4.80 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.70 | 1.15 | 2.10 | 3.95 7.50 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.70 | 1.15 | 2.10 | 3.95 7.50 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.70 | 1.15 | 2.10 | 3.95 7.50 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.55 | .80 | 1.35 | 2.50 4.50 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.40 | .60 | 1.10 | 1.95 3.40 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.40 | .60 | 1.10 | 1.95 3.40 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.40 | .60 | 1.10 | 1.95 3.40 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.35 | .55 | .90 | 1.55 2.70 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.35 | .40 | .70 | 1.10 1.75 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.35 | .55 | .90 | 1.55 2.70 |

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.50 | .70 | 1.15 | 2.10 3.75 |

COLORED VARNISH

PIONEER



"Pioneer" Colored Varnish produces a stained and varnished effect with one combination and is greatly desired for renewing old work, floors and furniture, as well as for finishing new work of any nature.

Being transparent it permits the grain of new work to show, as it does in case of old work that has been finished with a clear varnish or stain.

In finishing old work, it should be borne in mind that, because the colored varnish is transparent, a shade should be chosen as near the color of the old work as possible.

Where the color of the old work is to be changed, Ground Color should be used first.

Colors

| | | | | |
|-----------------|------------|--------|-------|-----------|
| Clear | Golden Oak | Walnut | | |
| Dark Oak | Light Oak | White | | |
| Dark Mahogany | | | | |
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Cans in Case... | 16 | 12 | 12 | 6 |
| Wt. Case, Lbs. | 10 | 15 | 30 | 60 |
| Per Can.... | \$0.60 | 1.10 | 1.90 | 3.55 6.65 |

Color Cards Furnished on Request

VARNISH REMOVER

PIONEER

| | | | | |
|---------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Per Can.... | \$0.50 | .75 | 1.30 | 2.15 4.00 |

VARNISH FLOOR PAINT

PIONEER



Made to be walked on, in short, it is a combination of the highest grade colors and a hard-drying varnish that will stand up under the most severe usage on interior or exterior floors. It is likewise suitable for interior walls, woodwork, radiators, furniture, porch furniture or similar wood, metal or plaster surfaces.

Colors

| | | | | |
|-------------------|----------|-------|----------|--------|
| Dark Oak | Mahogany | Lead | | |
| Light Oak | Dust | Slate | | |
| Walnut | | | | |
| Size Cans.... | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
| Cans in Case... | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 20 | 40 | 40 | 80 |
| Per Can.... | \$0.75 | 1.40 | 2.65 | 5.00 |

Color Cards Furnished on Request

FLAT GROUND COLOR

Furnished under both the "Pioneer" and "Keystone" labels and is used under Oil Stain and Colored Varnish on old work.

It produces a light tan or yellow color, dries very nicely over night and gives an excellent surface on which to grain with Oil Stain Graining Color.

PIONEER

| | | | | |
|-----------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Cans in Case... | 16 | 12 | 12 | 6 |
| Wt. Case, Lbs. | 15 | 23 | 45 | 90 |
| Per Can.... | \$0.50 | .75 | 1.35 | 2.40 4.55 |

KEYSTONE

| | | | | |
|-----------------|---------|-------|-------|-----------|
| Size Cans.... | 1/2 Pt. | 1 Pt. | 1 Qt. | 1 Gal. |
| Cans in Case... | 16 | 12 | 12 | 6 |
| Wt. Case, Lbs. | 15 | 23 | 45 | 90 |
| Per Can.... | \$0.40 | .65 | 1.15 | 2.10 3.80 |

STUCCO TONE**PIONEER**

The most desirable coating that can be secured for decorating and damp-proofing cement, concrete, brick, stucco or other masonry surfaces above the ground. Penetrating deep into the pores of the surface, it prevents the absorption of water and thereby keeps the masonry surface from breaking down.

Furnished in nine shades which dry to a beautiful egg-shell finish.

Colors

| | |
|-----------------------|------------------|
| No. 143—Bedford Gray | No. 147—Buff |
| No. 144—Portland Gray | No. 148—Brown |
| No. 145—Concrete Gray | No. 141—Tile Red |
| No. 146—Cream | No. 142—Green |

White

| | | | |
|-----------------------|------------|------------|--------|
| Size Packages | 1 Gal. Can | 5 Gal. Can | 1 Bbl. |
| Packages in Case | 6 | 1 | .. |
| Weight Per Case, Lbs. | 110 | 90 | 935 |
| Per Gallon | \$5.00 | 4.85 | 4.45 |

Color Cards Furnished on Request.

SASH BLACK**PIONEER**

A black finish primarily for use on window sash and frames. Made for exterior use on a spar varnish base that insures real durability under all weather conditions.

| | | | | | |
|-------------------|---------|-------|-------|----------|--------|
| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 15 | 23 | 45 | 45 | 90 |
| Per Can | \$0.50 | .80 | 1.45 | 2.75 | 5.20 |

WIRE SCREEN PAINT**PIONEER**

Made especially for window screens, preventing the wire from rusting and forming a weatherproof coat for the wood. Dries very hard and, while heavy enough to give real protection, it will not clog the mesh.

| | | | | | |
|-------------------|---------|-------|-------|----------|--------|
| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. | 1/2 Gal. | 1 Gal. |
| Cans in Case | 16 | 12 | 12 | 6 | 6 |
| Weight Case, Lbs. | 15 | 23 | 45 | 45 | 90 |
| Black, Per Can | \$0.40 | .60 | 1.00 | 1.85 | 3.35 |
| Green, Per Can | .50 | .75 | 1.35 | 2.40 | 4.45 |

WALL SIZE**PIONEER**

A clear, hard-drying varnish sizing to be used under Wall Tone for producing a sealed surface that is greatly desired. It can be mixed with Wall Tone and applied over plaster walls, old paint or wall paper and produces an excellent foundation on which to apply Wall Tone.

| | | | |
|-----------------------|--------|----------|--------|
| Size Cans | 1 Qt. | 1/2 Gal. | 1 Gal. |
| Cans in Case | 12 | 6 | 6 |
| Weight Per Case, Lbs. | 30 | 30 | 60 |
| Per Can | \$0.95 | 1.75 | 3.20 |

**THE NEVIN QUALITY LINE IS
COMPLETE**

There is a special paint for every surface.
We are prepared to furnish in any quantity
just the right product for any purpose

PURE WHITE**PIONEER**

A paste white ground in linseed oil for interior and exterior painting. Composed of lead, zinc and those other pigments which the manufacturer has found produce the best finishing surfaces.

In Steel Cans

| | | | | |
|-----------------|--------|----|----|-----|
| Size Cans, Lbs. | 12 1/2 | 25 | 50 | 100 |
| Per Pound | \$ | | | |

Market Price.**AMERICAN**

A paste white ground in linseed oil.

| | | |
|-----------------|--------|-----|
| Size Cans, Lbs. | 1 | 5 |
| Per Pound | \$0.24 | .22 |

WHITE LEAD**NEVIN STRICTLY PURE****In Oil**

This product is available in the usual sized packages.

Prices on Application.

GLAZIERS PUTTY**NEVIN "PIONEER" PURE**

A strictly pure article of the highest quality.

"Keystone"

A putty compound that is giving wonderful satisfaction.

Commercial Compound

Sold only in the large sized packages.

White Lead

Sold only on special order.

Prices on Application.

SAVABRUSH

SAVABRUSH
Cleans Old Brushes

Bright Old Dry
Brushes
Back to Life

No matter how
hard the paint
may have dried in
your old brushes,
it can be softened
and removed with
Savabrush.

The process is
quick, simple and
inexpensive.



Savabrush will not harm the brush in any way.

| | | |
|-----------------------|-----------|-----------|
| Size Cans | 2 1/2 Oz. | 1 1/2 Lb. |
| Cans in Case | 144 | 24 |
| Weight Per Case, Lbs. | 25 | 15 |
| Per Can | \$0.10 | .35 |

WALL PAINT BRUSHES



No. R-2163—"Mutual", Black Chinese Bristles
Vulcan Rubber Cemented, Nickel Plated Ferrule, Polished Handle.

| | | | |
|-------------------------|---------|-------|-------|
| Width, Inches | 3 | 3½ | 4 |
| Length Bristles, Inches | 3¼ | 3½ | 3¾ |
| Weight Dozen, Lbs. | 4 | 4¾ | 6 |
| Per Dozen | \$11.20 | 15.00 | 20.40 |

One-half Dozen in a Box.

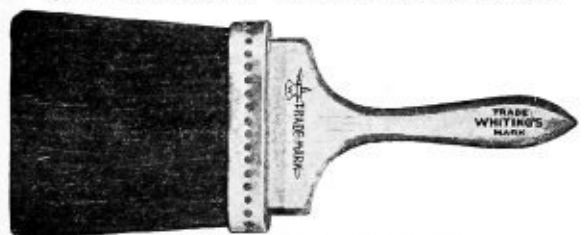


No. R-352—"Black Dude" All Black Bristles
Vulcan Rubber Cemented, Nickel Plated Ferrule, Polished Handle.

| | | | | | |
|----------------------|--------|------|------|-------|-------|
| Width, Inches | 2½ | 3 | 3½ | 4 | 5 |
| Length Bristles, In. | 2¼ | 2½ | 2¾ | 2¾ | 3¼ |
| Weight Dozen, Lbs. | 3 | 4 | 4¾ | 4¾ | 6¾ |
| Per Dozen | \$5.50 | 7.00 | 8.60 | 10.50 | 17.50 |

One-half Dozen in a Box.

STUCCO OR WALL BRUSHES



"Verilo", Black Chinese Bristles
Vulcanized in Rubber, Leather Bound, Polished Handle.

| | | |
|-------------------------|---------|-------|
| Nos. | 30 | 35 |
| Width, Inches | 3½ | 4 |
| Length Bristles, Inches | 4 | 4¼ |
| Weight Dozen, Lbs. | 6¼ | 7 |
| Per Dozen | \$40.00 | 48.00 |

One-half Dozen in a Box.

FLAT PAINTERS DUSTERS



"Nubian", Black Chinese Bristles and Horsehair Mixed
Very Full, Rubber Cemented, Nickel Plated Ferrule.

| | |
|---|---------|
| No. 9—4¼ in. Long, Bristles 3½ in. Long, Weight | |
| Per Dozen 5¼ Lbs. | \$26.75 |

One-half Dozen in a Box.

VARNISH BRUSHES



No. R-958—Black Chinese Bristles, Soft and Elastic
Triple Thick, Chiseled, Brass Bound, Natural Polished Handle.

| | | |
|-------------------------|---------|-------|
| Width, Inches | 2 | 2½ |
| Length Bristles, Inches | 2½ | 2¾ |
| Weight Dozen, Lbs. | 3½ | 4¼ |
| Per Dozen | \$12.50 | 16.50 |

One-half Dozen in a Box.



No. R-2165—"XX Nabob", Black Chinese Bristles
Double Thick, Chiseled, Nickel Plated Ferrule, Polished Handle.

| | | | |
|-------------------------|--------|------|------|
| Width, Inches | 1½ | 2 | 2½ |
| Length Bristles, Inches | 2½ | 2¾ | 2¾ |
| Weight Dozen, Lbs. | 1 | 1½ | 2½ |
| Per Dozen | \$4.25 | 6.00 | 8.50 |

One Dozen in a Box.

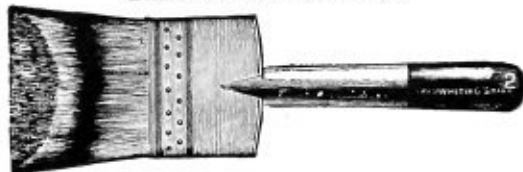


No. R-045—Black Bristles, Double Thick
Vulcan Rubber Cemented, Nickel Plated Ferrule, Red Polished Handle.

| | | | | |
|-------------------------|--------|------|------|------|
| Width, Inches | 1 | 1½ | 2 | 2½ |
| Length Bristles, Inches | 1¾ | 2 | 2½ | 2¾ |
| Weight Dozen, Lbs. | 1 | 1½ | 1½ | 2¼ |
| Per Dozen | \$3.00 | 4.00 | 5.00 | 7.50 |

One Dozen in a Box.

BADGER HAIR FLOWING



No. 951—Single Thick, Chiseled
Nickel Plated Ferrules and Handle with Wood Tip.

| | | |
|--------------------|---------|-------|
| Width, Inches | 2 | 3 |
| Weight Dozen, Lbs. | 1½ | 2¼ |
| Per Dozen | \$18.25 | 27.00 |

One Dozen in a Box.

SASH TOOLS

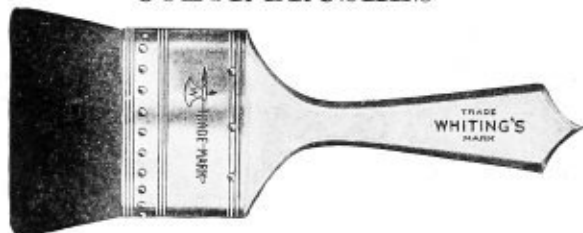


"Comet", Selected Black Chinese Bristles, Chiseled
Nickel Plated Ferrule, Natural Polished Handle.

| | | | | | |
|-------------------------|--------|------|------|------|------|
| Nos. | 2 | 4 | 6 | 8 | 10 |
| Width, Inches | 5 | 7 | 1 | 1½ | 1¾ |
| Length Bristles, Inches | 1½ | 1½ | 2 | 2½ | 2¾ |
| Weight Dozen, Lbs. | 1½ | 2 | 2½ | 2½ | 3¾ |
| Per Dozen | \$3.00 | 4.00 | 5.50 | 7.00 | 8.00 |

One Dozen in a Box.

COLOR BRUSHES



No. 901—"Krako," Camel Hair, Double Thick, Tin Ferrule

Especially Adapted to Coach Painters' Use.

| | | | |
|------------------------|--------|-------|-------|
| Width, Inches | 1 | 2 | 3 |
| Weight Per Dozen, Lbs. | 1 | 1 1/4 | 2 |
| Per Dozen | \$5.00 | 14.00 | 30.00 |

One Dozen in a Box.

MARKING BRUSHES



Camel Hair, Fairly Stiff

Tin Ferrule, Plain Cedar Handle, Square End.

| | | | | |
|------------------------|--------|------|------|-------|
| Nos. | 1 | 2 | 3 | 4 |
| Weight Per Dozen, Lbs. | 1 | 1 | 1 | 1 1/4 |
| Per Dozen | \$1.50 | 1.75 | 2.00 | 2.50 |

One Gross in a Box.

PAPER HANGERS SMOOTHING BRUSHES



Two Rows Stiff Black Horse Hair, Wire Drawn

| | |
|--|-----------|
| No. 6—12 in. Wide, Bristles 1 1/4 in. Long, Weight | Per Dozen |
| Per Dozen 7 Lbs. | \$14.00 |

One-half Dozen in a Carton.

WHITEWASH BRUSHES

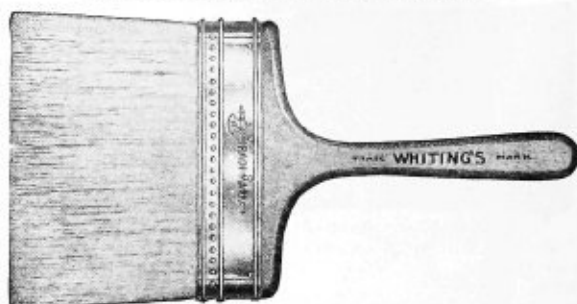


Black Bristle, Metal Ferrule

| | | |
|-------------------------|---------|-------|
| Width, Inches | 7 | 8 |
| Length Bristles, Inches | 2 1/2 | 3 3/4 |
| Weight Per Dozen, Lbs. | 8 1/4 | 10 |
| Per Dozen | \$12.00 | 14.00 |

One-half Dozen in a Box.

KALSOMINE BRUSHES



"Atlantic," White Bristles, Metal Ferrule

| | |
|---|-----------|
| No. 660—6 in. Wide, Bristles 3 1/4 in. Long, Weight | Per Dozen |
| Per Dozen 10 Lbs. | \$30.00 |

One-half Dozen in a Box.

ROOFING BRUSHES



"B. B." All Black Bristles, Mixed Quality, Round Knots, Steel Ferrules

| | |
|---|-----------|
| No. 36—4 Knots, 8 in. Wide, Bristles 3 1/4 in. Long, Weight Per Dozen | Per Dozen |
| Per Dozen 11 1/4 Lbs. | \$36.00 |

One-quarter Dozen in a Box.

FLOOR WAXING BRUSHES

MILWAUKEE WEIGHTED

Stiff Gray Fibre Brush Part

Aluminum Finished Casting with Felt Guard or Bumper, Varnished Wood Handle.



| | |
|--|--------|
| No. 200—Brush Part 1 in. Long, 8 3/4 x 4 3/4 in., Weight | Each |
| Each 15 Lbs. | \$4.00 |

Open Stock.

IF ITS AUTOMOBILE
ACCESSORIES

WE HAVE IT

Large Line Shown in Our 500 Page
Automobile Accessory Catalogue

METAL POLISH

BLUE RIBBON CREAM



In Screw Top Tin Cans

| | | | |
|-----------------------|---------|----------|--------|
| Size Cans | 1/4 Pt. | 1/2 Pt. | 1 Pt. |
| Cans in Case | 72 | 36 | 24 |
| Weight Per Case, Lbs. | 29 | 29 | 34 |
| Per Dozen | \$1.80 | 3.00 | 5.40 |
| Size Cans | 1 Qt. | 1/2 Gal. | 1 Gal. |
| Cans in Case | 24 | 12 | 6 |
| Weight Per Case, Lbs. | 57 | 59 | 58 |
| Per Dozen | \$9.60 | 13.60 | 22.40 |

A cream polish for use on any metal, or metal parts; particularly well adapted for the polishing of brass, copper and nickel.

Requires less polish and less effort to obtain a mirror-like brilliancy, and the lasting quality of the luster given makes frequent polishing unnecessary.

SOLARINE



Cannot be equalled for polishing all kinds of metals, such as gold, silver, brass, nickel, copper, bronze, zinc, aluminum, tin, etc. Absolutely harmless to all metals.

| | | | |
|----------------|---------|----------|--------|
| Nos. | 0 | 1 | 2 |
| Size Cans | 1/4 Pt. | 1/2 Pt. | 1 Pt. |
| Cans in Case | 144 | 72 | 36 |
| Wt. Case, Lbs. | 47 | 53 | 54 |
| Per Dozen | \$2.00 | 3.50 | 6.00 |
| Nos. | 3 | 4 | 5 |
| Size Cans | 1 Qt. | 1/2 Gal. | 1 Gal. |
| Cans in Case | 12 | 6 | 6 |
| Wt. Case, Lbs. | 38 | 36 | 68 |
| Per Dozen | \$10.00 | 18.80 | 33.00 |

A-1

The One Perfect Metal Polish

Will shine gold, silver, platinum or nickel as well as brass, copper or aluminum. Will not scratch the most highly polished surface.

Easily used, only the least amount of rubbing required to bring a most brilliant luster that lasts.

Perfect emulsion prevents caking in bottom of the can.

| | | | |
|----------------|--------|-------|--------|
| Size Cans | 1 Pt. | 1 Qt. | 1 Gal. |
| Cans in Case | 36 | 12 | 6 |
| Wt. Case, Lbs. | 54 | 38 | 68 |
| Per Dozen | \$4.00 | 7.00 | 24.00 |



WINTERTON PASTE

A quick cleaner, a rapid finisher, free from acid or gritty properties.

For Steel

| | |
|---------------------|-----------|
| 1 Pound Can—25 Cans | Per Dozen |
| in a Case | \$6.00 |

For Brass

| | |
|---------------------|-----------|
| 1 Pound Can—25 Cans | Per Dozen |
| in a Case | \$6.00 |



NICKEL POLISH

BLUE RIBBON CREAM



A quality product in every way for cleaning and polishing fine nickel parts and trimmings.

It gives a polish that is remarkable not only for its clear brilliancy but also for its splendid lasting qualities.

| | | | |
|-----------------------|---------|-------|-------|
| Size Cans | 1/2 Pt. | 1 Pt. | 1 Qt. |
| Cans in Case | 36 | 24 | 24 |
| Weight Per Case, Lbs. | 29 | 34 | 57 |
| Per Dozen | \$3.00 | 5.40 | 9.60 |

PREPARED WAX

JOHNSON'S PASTE

For Floors and Woodwork

Gives perfect results over any finish. It imparts a hard, dry, velvety polish which is impervious to water, dust, scratches, heel marks, finger prints, etc.

For polishing floors of all kinds, wood, linoleum, tile, marble, etc.

Never becomes soft or sticky in the hottest weather.



In Friction Top Tin Cans

| | | | |
|-----------------------|--------|-----|------|
| Size Cans, Lbs. | 1/2 | 1 | 4 |
| Cans in Case | 100 | 100 | 100 |
| Weight Per Case, Lbs. | 60 | 115 | 115 |
| Per Can | \$0.50 | .85 | 2.40 |

JOHNSON'S LIQUID



The ideal Furniture Polish. Imparts a hard, dry, gloss-like lustre which will not gather dust and lint or show finger prints, covers up surface mars and prevents checking. Johnson's Liquid Wax takes all the drudgery from dusting, adds years to the beauty and life of varnish, easy to apply and polish.

The ideal Automobile Polish, acts as a buffer between the varnish and the elements.

| | | | |
|-----------------------|---------|-------|-------|
| Size Bottle | 1/2 Pt. | 1 Pt. | 1 Qt. |
| Bottles in Case | 48 | 48 | 24 |
| Weight Per Case, Lbs. | 35 | 65 | 60 |
| Per Bottle | \$0.50 | .75 | 1.40 |

GULFOIL

There is a definite need for "Gulfoil" everywhere as a lubricant because it is "wear insurance" wherever it penetrates. It cleans and polishes furniture and woodwork, removing both dirt and grime, and produces a beautiful luster.

Both tarnish and rust on metal surfaces can be quickly and easily removed with "Gulfoil."

In Handy Flat Tin Oil Cans

| | |
|-------------------|-----------|
| Gulfoil—3 Oz. Can | Per Dozen |
| | \$3.60 |

One Dozen in a Box.



THREE IN ONE OIL



Three-In-One Oil Lubricates,
Cleanses, Polishes and
Prevents Rust

Has no equal for sewing machines, guns, bicycles, typewriters and other mechanism.



Nos. 1 to 8.

No. 3.

- No. 1—Small, 1 Oz. Bottles, 2 Dozen in a Box.....\$1.80
No. 2—Large, 3 Oz. Bottles, 1 Dozen in a Box..... 3.60
No. 4—Factory Size, 8 Oz Bottles, 1 Dozen in a Box. 7.20
No. 3—3 Oz. Handy Flat Tin Oil Can with Self-Sealing Spout which Can't Leak, Slips Easily into Hip Pocket, 1 Dozen in a Display Box..... 3.60

FIRE EXTINGUISHERS

PYRENE

Pyrene Fire Extinguishers are the safest and most efficient type for electrical and all fires starting in oil, gasoline, shellac, paint or other highly inflammable substances. Water only spreads oil fires and is dangerous to use on an electrical fire.

When Pyrene is thrown onto a blaze, the heat of the fire transforms the liquid into a heavy, non-poisonous gas blanket which extinguishes the fire by cutting off the air supply.

The lightness and ease of operation of Pyrene extinguishers by women and children commend it to anyone for home protection.

Being adopted as standard fire protection for incipient fires by large railroads, factories, etc.

There is within the container a manually operated double-acting pump which throws a continuous stream.

Brass Finish, with Black Enamelled Brackets

Pyrene—14 in. Long, 3 in. Diameter, Weight Each Filled Ready for Use 6 Lbs.....\$12.00

PYRENE LIQUID

Pyrene Liquid will not injure delicate fabrics or sensitive machinery. Can be kept in unheated buildings or in exposed places as it does not freeze even at 50 degrees below zero.

Per Can

- 1 Quart Can—Sufficient for One Filling for Pyrene Extinguisher....\$1.80
1 Gallon Can 7.20

GUARDENE

Guardene Fire Extinguishers embody all the latest improvements in soda and acid machines. They are powerful enough to handle a free burning fire in its early stages yet light and compact enough to permit extremely quick action.

To use the extinguisher it is simply turned upside down. The stream can be shut off by turning the extinguisher right side up again. Will throw a stream 40 feet.

Made of cold rolled copper, burnished outside and heavily tin plated inside. Tested to 350 pounds pressure.

Each

- Guardene—Capacity 2½ Gallons, Weight Each Filled 40 Lbs.....\$20.00
Guardene Recharges 75

GLASS CUTTERS

GENUINE RED DEVIL



Hand Honed and Tested Cutting Wheel

- No. 024—4¾ in. Long, Polished Steel Head, Red Enamelled Iron Handle, Weight Per Dozen 1 Lb. \$2.20
One in a Box, One Dozen in a Carton.

LENOX



Extra Hard, Hand Honed Cutting Wheel

- Per Dozen
Lenox—Polished Head, Blue Enamelled Handle, with Red Tip, Weight Per Dozen ¾ Lb.....\$2.20
Cuts more glass and cuts it easier, well finished and fully guaranteed against defective materials or workmanship.

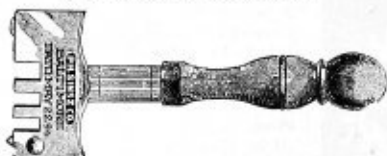
One in a Box, One Dozen in a Display Carton.

G-P TURRET HEAD



- Mahogany Enamelled Wood Handle Per Dozen
No. 1—5½ in. Long, Nickel Plated Steel Head and Turret, 6 Tempered Steel Cutting Wheels Affixed to Turret which May be Revolved on or Clamped to the Frame by a Screw at its Center, Weight Per Dozen 14 Oz.....\$4.40
One in a Carton, One Dozen in a Box.
No. 10—Extra Cutter Wheels, for No. 1 Cutter..... .66

UNIVERSAL DIAMOND



With Guide Wheel to Regulate Pressure

- Each
No. 8—3½ in. Long Over All, Nickel Plated Steel Head, Ebonized Wood Handle, Weight Each About ¼ Lb.....\$3.50
One in a Box.

RED DEVIL CIRCULAR



Red Enamelled Base, Polished Rod

- Each
No. 263—Cuts Circles from 2 to 20 in., Complete with 2 Extra Cutters, Weight Each ½ Lbs.....\$1.75
Metal base with rubber mat to prevent slipping. Adjustable head, steel rod graduated in inches to sixteenths, cuts glass clean and accurate.
One in a box.

G-P CIRCULAR



Will Cut Circles of Any Size from 2 to 12 in. Diameter

- Each
No. 478—Graduated Beam, Rubber Base, Honed and Tested Cutter Wheel, Weight Each ½ Lb.....\$1.30
One in a Carton.

GAUGE GLASS CUTTERS

CHESTERTON



Nickel Plated

The sliding lever can be placed close to work and thus more power is obtained. The steel cutting wheel can be used much longer than in any other cutter.

Chesterton— $8\frac{3}{4}$ in. Long, Steel Cutting Wheel, Graduated Spring Lever, Weight Each $\frac{1}{2}$ Lb. \$2.00
Extra Cutter Wheels35
One in a Carton.



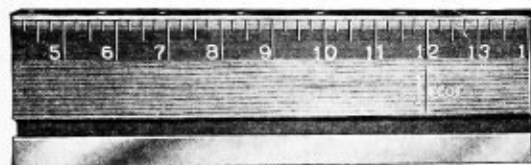
WILKINS' IMPROVED
Nickel Beam, Rubber Finish Handle
Each

No. 1—Cuts to 8 in. Lengths, Weight
Each 6 Oz. \$2.00
One in a Box with Extra Cutter Wheel.

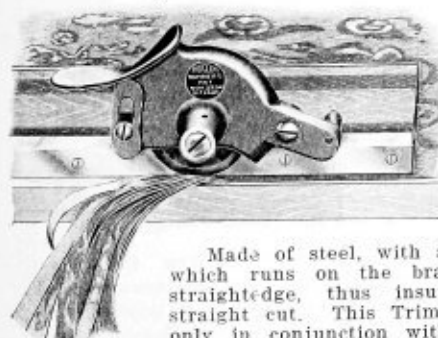
Extra Cutter Wheels—Ground and Tested. \$0.15

STRAIGHTEDGES

RULED TRIMMER OR KNIFE EDGE



No. 4—Brass Bound, Selected Seasoned Stock, Graduated
Length, Feet 6 7 8
Weight Each, Lbs. $2\frac{1}{2}$ 3 $3\frac{1}{2}$
Each \$5.35 5.85 6.50
Open Stock.

WALL PAPER TRIMMERS

MODEL D

For Use with
No. 4 Straight-
edge

Made of steel, with a steel clip guide which runs on the brass track of the straightedge, thus insuring a perfectly straight cut. This Trimmer can be used only in conjunction with a straightedge. Trims the selvage of wall paper six times as fast as can be done with shear or knife. Each

Model D—Trimmer Only, 5 in. Long, Weight Each
7 Oz. \$4.20
Twelve in a Box.

TRIMMER OUTFITS

No. 4-0—Consists of a No. 4 Straightedge, a Model "D" Trimmer and a Strip of Zinc.

The strip of zinc is 3 in. wide and the length of the straightedge and is used to lay under the paper on the cutting table.

Length Straightedge, Feet 6 7 8
Weight Per Outfit, Lbs. $3\frac{1}{2}$ 4 $4\frac{1}{2}$
Per Outfit \$9.50 10.20 10.85
Open Stock.

CASING AND CORNER KNIVES

Frames are Highly Nickeled and Polished, Wheels are Tempered Steel, Polished and Ground



Large Maple Handle Per Dozen

No. 6— $1\frac{1}{2}$ in. Wheel, Smooth Edge, Weight Per Dozen
About $1\frac{3}{4}$ Lbs. \$7.50
One-half Dozen in a Box.



Polished Large Maple Handle Per Dozen

No. 02— $1\frac{1}{2}$ in. Wheel, Serrated Edge, Weight Per
Dozen About 2 Lbs. \$7.00
One-half Dozen in a Box.

PAPER HANGERS KNIVES

High Grade Steel Round Point Blade, Well Tempered and
Ground Per Dozen

No. 2— $3\frac{3}{4}$ in. Long, $1\frac{1}{2}$ in. Wide, Weight Per Dozen
About 1 Lb. \$4.50
One Dozen in a Box.

SEAM ROLLERS

RIDGELITE

Roller Made of a Special Compound, Knurled to Prevent
Flashing or Polishing the Seam.



Large Maple Handle Per Dozen

No. 1— $1\frac{1}{4}$ in. Oval Face, 6 in. Long, Weight Per
Dozen About $2\frac{1}{4}$ Lbs. \$8.50
One-half Dozen in a Box.

MAPLE



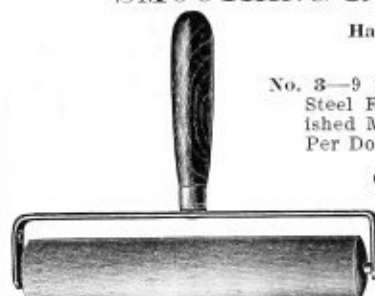
Maple Roller, Friction Polished Per Dozen

No. 11—1 in. Flat Face, Polished Steel Frame, Friction
Polished Maple Handle, Weight Per Dozen
About 2 Lbs. \$4.60
One-half Dozen in a Box.

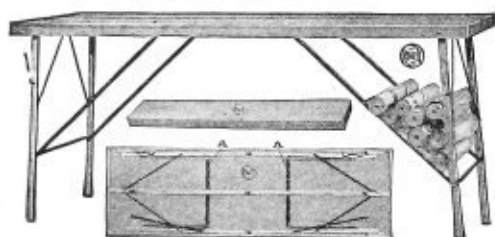
SMOOTHING ROLLERS

Hard Maple Roller

No. 3—9 in., Nickel Plated
Steel Frame, Large Polished
Maple Handle, Wt.
Per Dozen $7\frac{1}{2}$ Lbs. \$7.50
One in a Box.



FOLDING PASTE TABLES



No. 314—Air Dried Bass Wood Top and Legs

33 in. High, 22 in. Wide Opened, 11 in. Wide Closed; Space in Side for Straight Edge and Hand Tools; All Steel Braces; Flaring Legs Prevent Creeping.

| | | | |
|-------------------|--------|------|------|
| Length, Feet | 6 | 7 | 8 |
| Weight Each, Lbs. | 19½ | 23 | 27 |
| Each | \$8.50 | 9.20 | 9.60 |

The steel cross braces make the tables much more rigid at top. They also enable the end braces to be attached to them and permit the surplus paper to be put on the braces without weakening the table.

Open Stock.

STEP LADDERS

CHALLENGE

Straight Grained, Tough Eastern White Ash Front Standards



The Back Standards are of Clear Eastern Spruce, Clean White Basswood Steps. Every Step is Bolted and Clamped so as to Make a Break Almost an Impossibility. Exceedingly Strong and Durable Yet Comparatively Light in Weight. With Pail Shelf.

| | | | | | |
|-------------------|--------|------|------|------|------|
| Length, Feet | 3 | 4 | 5 | 6 | 7 |
| Weight Each, Lbs. | 10½ | 14 | 17½ | 21 | 24½ |
| Per Foot | \$1.10 | 1.10 | 1.10 | 1.10 | 1.10 |

| | | | | |
|-------------------|--------|------|------|------|
| Length, Feet | 8 | 10 | 12 | 14 |
| Weight Each, Lbs. | 28 | 35 | 42 | 49 |
| Per Foot | \$1.10 | 1.10 | 1.50 | 1.50 |

3 to 8 Feet, Two; 10 and 12 Foot, One in a Bundle.

GOSHEN "A"

Good Grade Stock, with Shelf

Full Bolted with a Bolt Supporting Each Step, Wide Top Riveted to Legs and Risers, Steel Angle Bound Braces, Boyer New Faultless Lock.

2½ x ¾ in. Risers, 1½ x ¾ in. Back Legs, 7 x ¾ in. Top, 3½ x ¾ in. Steps.

| | | |
|-------------------|--------|-----|
| Length, Feet | 4 | 5 |
| Weight Each, Lbs. | 12 | 15 |
| Per Foot | \$0.88 | .88 |

| | | | | |
|-------------------|--------|-----|-----|-----|
| Length, Feet | 6 | 7 | 8 | 10 |
| Weight Each, Lbs. | 18 | 21 | 24 | 30 |
| Per Foot | \$0.88 | .88 | .88 | .88 |

Open Stock.



STEP LADDERS

SPECIAL FULL RODDED

Best Bright Clear Stock

Steps are Gained Into Sides or Risers. Iron Rods Under All Steps Held Securely in Place by Plates at Each End.

Back Legs are Hung on Galvanized Wrought Iron Ears or Brackets and Well Braced.

Shelf Supported on Arms Riveted to Back Legs. Steel Locks Securely Riveted to Risers and Back Legs.



| | | | |
|-------------------|--------|-----|-----|
| Length, Feet | 4 | 5 | 6 |
| Weight Each, Lbs. | 10 | 13 | 15 |
| Per Foot | \$0.45 | .45 | .45 |

| | | | |
|-------------------|--------|-----|-----|
| Length, Feet | 7 | 8 | 10 |
| Weight Each, Lbs. | 17½ | 20 | 25 |
| Per Foot | \$0.45 | .45 | .45 |

Open Stock.

STRAIGHT SINGLE LADDERS

High Grade Stock, Hardwood Rungs

Rungs are "Shouldered", Driven Clear Through and Securely Nailed.

Wide Spread at Bottom.



| | | |
|-------------------|--------|-----|
| Length, Feet | 12 | 14 |
| Weight Each, Lbs. | 21 | 24½ |
| Per Foot | \$0.30 | .30 |

| | | |
|-------------------|--------|-----|
| Length, Feet | 16 | 18 |
| Weight Each, Lbs. | 28 | 31½ |
| Per Foot | \$0.30 | .35 |

| | |
|-------------------|--------|
| Length, Feet | 20 |
| Weight Each, Lbs. | 35 |
| Per Foot | \$0.35 |

Open Stock.

EXTENSION LADDERS

AUTOMATIC

Clear Stock, Selected Hardwood Rungs

Each Rung is "Shouldered", Driven Clear Through and Nailed. Malleable Iron Castings and Pressed Steel Metal Parts, Wide Spread at Bottom, with Rope and Pulley.

| | | | | |
|-------------------|--------|-----|-----|-----|
| Length, Feet | 22 | 24 | 26 | 28 |
| Weight Each, Lbs. | 50 | 54 | 60 | 63 |
| Per Foot | \$0.45 | .45 | .45 | .45 |

| | | | | |
|-------------------|--------|-----|-----|-----|
| Length, Feet | 30 | 32 | 34 | 36 |
| Weight Each, Lbs. | 67½ | 74 | 76 | 80 |
| Per Foot | \$0.45 | .45 | .50 | .50 |

| | | | |
|-------------------|--------|-----|-----|
| Length, Feet | 38 | 40 | 42 |
| Weight Each, Lbs. | 85½ | 88 | 90 |
| Per Foot | \$0.50 | .50 | .60 |

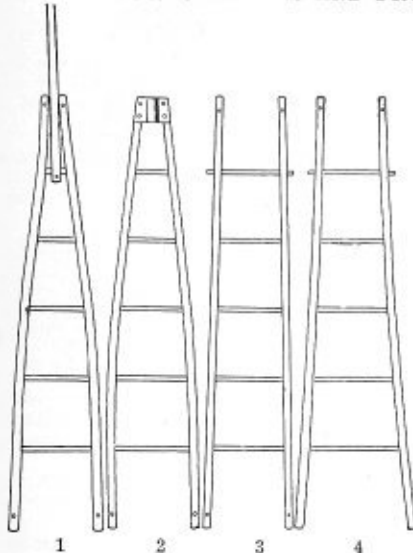
A strong, safe Ladder, that releases on a catch at any height desired. Always work when rope is pulled.

Open Stock.



LADDERS

WINDOW CLEANERS AND FRUIT PICKERS



Clear Spruce,
Selected
Rungs

6 1/4 ft. long, 15 in. wide over all at point of connection, 3/4 x 2 3/4 in. side rails.

Window cleaner's section is brought close together and provided with hollow piece to fit on corner of window sash and door jambs.

Fruit picker's section is fitted with a 2 foot straight extension.

Per Section

- No. 1—Top Fruit Picker's Section, Weight Per Section 9 Lbs. \$3.50
 No. 2—Top Window Cleaner's Section, Weight Per Section 8 Lbs. 3.50
 No. 3—Regular or Middle Section, Weight Per Section 7 Lbs. 3.25
 No. 4—Bottom or Flare Section, Weight Per Section 7 Lbs. 3.25

Open Stock.

PAINTERS TRESTLES



RICH EXTENSION

Selected Stock

The length of the trestle is exclusive of the extension part.

The extension part of each trestle is the same length as the trestle itself.

| | | | | | | |
|----------------------|--------|-----|-----|-----|-----|-----|
| Length, Feet..... | 6 | 8 | 10 | 12 | 14 | 16 |
| Weight Each, Lbs.... | 39 | 52 | 65 | 78 | 91 | 104 |
| Per Foot | \$0.60 | .60 | .60 | .65 | .65 | .65 |

Open Stock.

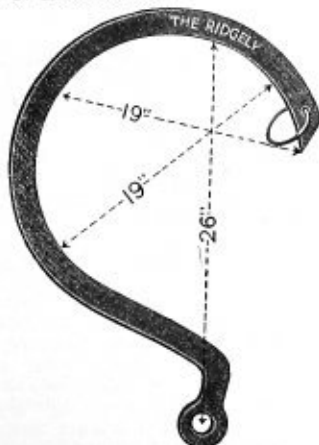
STAGING HOOKS

High Carbon Steel, Black
Japanned

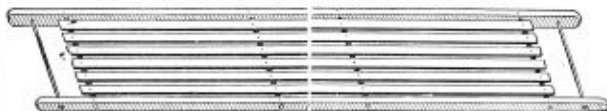
Per Pair

- No. 94—29 in. Long, Steel 2 in. Wide by 1/2 in. Thick, One Pair Will Support a Load of 1500 Lbs. with Absolute Safety, Weight Per Pair 40 Lbs. \$8.40

Open Stock.



PAINTERS SCAFFOLDS



Clear Norway Spruce Side Rails

Selected Hardwood Rounds, Seats Nailed to Rounds, Iron Brace Rods at Each End. Each

- No. 1—16 ft. Long, Weight Each 80 Lbs. \$ 9.00
 No. 2—20 ft. Long, Weight Each 100 Lbs. 14.00

SCAFFOLD IRONS

No. 615—With Safety
Back

A piece of 2x4 slipped in the loops at top prevents danger of falling off backward. Made of the best 1/2 in. round steel with 1 1/2 x 1/2 in. steel bottom.

Will hold a down weight of 2000 pounds.

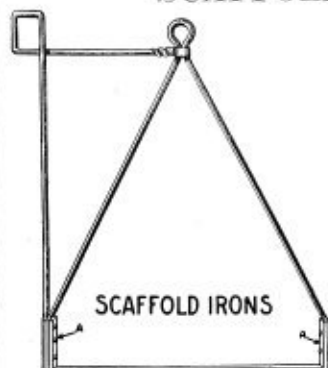
Width, Inches... 24 1/2

Per Pair..... \$12.00

Width, Inches... 28 1/2

Per Pair..... \$12.00

Weight Per Pair 25 Pounds.



No. 615.

No. 615 1/2—Without Safety Back

Otherwise Same as No. 615.

Width, Inches 24 1/2

Per Pair \$11.00

28 1/2

11.70

Weight Per Pair About 25 Pounds.

Open Stock.

LADDER JACKS

"SAFETY"



In Reverse Position.

Four Point Suspension
On Side Rails

Not dependent on the strength of the rungs. The strain is entirely on the side rails.

Consequently, this is the safest ladder jack made.

Strong, rigid, safe and compact. An alloy steel bolt forms an unbreakable hinge.

High Grade Steel, Black
Japanned

Per Pair

Safety Ladder Jack—Wt.

Per Pair 23 Lbs. \$4.50

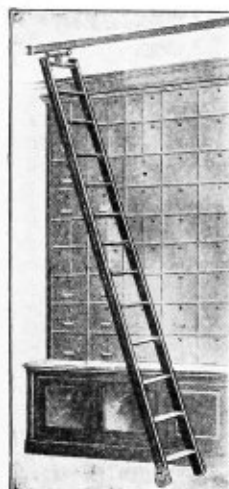
Six Pairs in a Case.



ROLLING LADDERS

COBURN PATTERN

STYLE "A"



Will Run on Curved or Straight Track

The Heavy, Ball Bearing Top Carriage consists of a Steel Bar and two Drop Forged Steel Pendants which allow the carriage to swivel.

The Track is the Original Coburn Round Trough inclosed track, with forged steel track brackets spaced not over 6 ft. apart.

The Bottom Rolls are Coburn Rubwood Wheels, made with layers of laminated wood impregnated with rubber with a heavy rubber tread as part of the wheel. Wheel is steel bushed.

Solid Straight Sides, Natural Wood Finish

Sides $4\frac{1}{2}$ in. Wide, Treads $5\frac{1}{2}$ in. Wide, Ladder 14 in. Wide over all, $5\frac{1}{2}$ in. Pitch to a Foot in Height, Well Braced, Strong and Rigid.

| | |
|---|----------------|
| Hard Pine—Complete up to 16 ft. Long, Weight Each Complete About 65 Lbs. | Each, \$20.00 |
| Oak—Complete up to 16 ft. Long, Weight Each Complete About 67 Lbs. | Each, 24.00 |
| Extra Length—Over 16 ft., Add. | Per Foot, 1.00 |
| No. 1 Track—Coburn, with Brackets. | Per Foot, .25 |
| Ladder Carriage—With Bolts | Each, 8.00 |
| Bottom Rolls—With Brackets | Per Pair, 4.00 |
| Bottom Rolls—Rubwood Wheels Only. | Per Pair, 2.50 |
| Adjustable Side Shelves. | Each, 2.00 |
| Pine Ceiling Strips. | Per Foot, .20 |
| Oak Ceiling Strips. | Per Foot, .30 |
| Open Stock. | |

STYLE "B"

Will Run on Curved or Straight Track

The Carriage has slides which allow the Ladder to be pushed back against the shelving into a vertical position out of the way when not in use.

The Track is straight grained hardwood accurately turned to $1\frac{1}{8}$ in. round, polished and oiled.

The Track Brackets are Steel or, occasionally heavy Cast Iron.

The Bottom Rolls are Coburn Rubwood Wheels as described above.

Straight or Bent, Natural Wood Finish

Sides 3 in. Wide, Treads 4 in. Wide, Ladder 16 in. Wide Over All, $2\frac{1}{2}$ in. Pitch to a Foot in Height, Strengthened and Braced with Steel Rods and Brackets.



| | |
|---|----------------|
| Hard Pine—Straight Ladder, Complete, Weight Each About 48 Lbs. | Each, \$18.00 |
| Oak—Straight Ladder, Complete, Weight Each About 50 Lbs. | Each, 22.00 |
| Bent Ladder—Pine or Oak, Add. | Each, 2.00 |
| Track—Wood, with Brackets, End Stops. | Per Foot, .20 |
| Track Brackets | Each, .15 |
| Ladder Carriage—Complete | Each, 6.00 |
| Bottom Rolls—Complete with Brackets. | Per Pair, 4.00 |
| Bottom Rolls—Rubwood Wheels, Only. | Per Pair, 2.50 |
| Adjustable Side Shelves. | Each, 2.00 |
| Open Stock. | |

ROLLING LADDERS

COBURN PATTERN

STYLE "C"

For use when there are obstructions or conditions of the floor which will not permit a ladder to run over it.

Track is Tubular Iron which must be securely fastened, preferably to uprights to secure sufficient strength.

Top Carriage is the same as furnished with Style "B."

The Ladder is of the same material and workmanship as Style "B."

Instead of Bottom Rolls, the Style "C" is furnished with Rubber Covered Fender Rolls that roll against edge of counter ledge.



Bent Ladder

| | |
|--|----------------|
| Hard Pine—Complete, Weight Each 45 Lbs. | Each, \$18.00 |
| Oak—Complete, Weight Each 48 Lbs. | Each, 22.00 |
| Track—Tubular Iron, with Brackets. | Per Foot, .30 |
| Ladder Carriage—Complete | Each, 6.00 |
| Fender Rolls—Complete with Brackets. | Per Pair, 2.00 |
| Fender Rolls—Rubber Covered Rolls Only. | Per Pr., 1.00 |
| Adjustable Side Shelves. | Each, 2.00 |
| Open Stock. | |

STYLE "D"

For use in Vaults, File Rooms and all small rooms where it is desirable to transfer the ladder to different runs of track in the same room.

The top fittings allow the ladder to be easily removed from the track. By having tracks properly arranged, all parts of shelving are easily accessible by moving ladder from one track to the other.

High Grade Ladder, Wood Track same as with Style "B," Coburn Rubwood Bottom Rolls, same as with Style "B."

Straight or Bent Ladder

| | |
|---|---------------|
| Hard Pine — Straight Ladder, Complete, Weight Each 48 Lbs. | Each, \$12.00 |
| Oak—Straight Ladder, Complete, Weight Each 50 Lbs. | Each, 16.00 |



| | |
|---|----------------|
| Bent Ladders—Pine or Oak, Add. | Each, \$2.00 |
| Track—With Brackets and End Stop. | Per Foot, .20 |
| Track Brackets | Each, .20 |
| Top Hooks | Per Pair, 1.00 |
| Bottom Rolls—Complete with Brackets. | Per Pair, 4.00 |
| Bottom Rolls—Rubwood Wheels Only. | Per Pair, 2.50 |
| Adjustable Side Shelves. | Each, 2.00 |
| Open Stock. | |

Note 1—Write for Order Blanks, Fill in all Measurements Accurately.

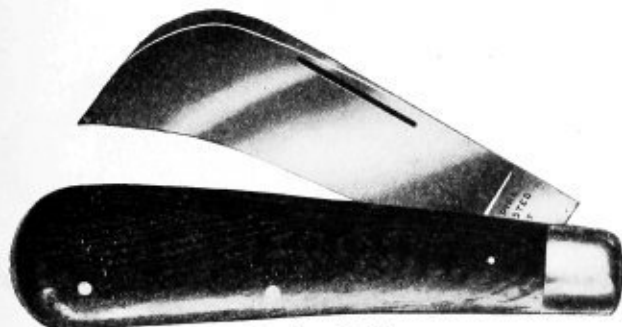
Note 2—Allow 12 in. Clear Space above Track for top of Ladders Style "B," "C" and "D."

Note 3—Straight Ladders are recommended wherever distance from counter ledge to where track is located is 4 ft. or more and ledge does not exceed 12 in. in width.

Note 4—For Style "C" give Exact Distance Center to Center of Shelf Uprights and, if Track is to be attached to Uprights, give Thickness of same.

EMPIRE POCKET KNIVES

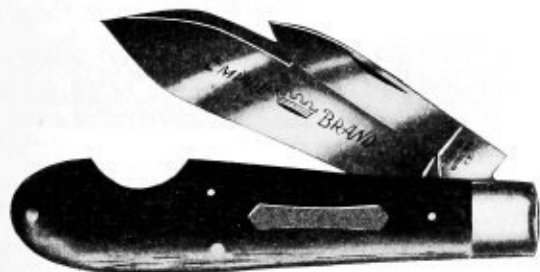
Made of the finest Pocket Cutlery Steel, high in Carbon, making a blade which will cut and hold its edge. Blades are of the finest temper possible to be obtained.



Pruning Knife

One Pruning Blade, Glazed Finish, Steel Lined, Steel Bolster.

No. 715R—Cocobolo Handle, 4 1/8 in. Long, Weight Per Dozen 2 1/2 Lbs. \$13.00



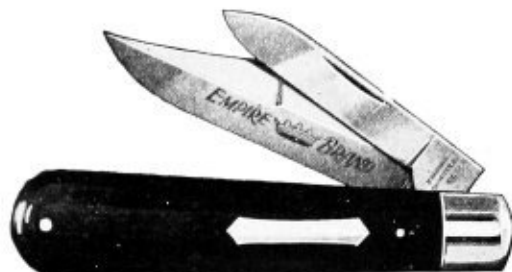
Jack, Two Blades, Large Spear and Pen, Glazed Finish, Brass Lined, Nickel Bolster.

No. 032R-ED—Easy Opener, Redwood Handle, 3 3/8 in. Long, Weight Per Dozen 2 1/4 Lbs. \$12.50



Stabber, Two Blades, Large Spear and Pen, Glazed Finish, Steel Lined, Steel Bolster.

No. 257R-CH—Redwood Handle, 3 3/8 in. Long, with Chain, Weight Per Dozen 1 3/4 Lbs. \$8.00



Two Blades, Glazed Finish Blades, Brass Lined, Steel Bolster.

No. 063 3/4-EBEV—Large Saber Clip and Pen, Ebony Handle, 3 3/8 in. Long, Weight Per Dozen 2 1/2 Lbs. \$13.00
No. 062-S—Plain Spear and Pen, Stag Handle, 3 3/8 in. Long, Weight Per Dozen 2 1/2 Lbs. 12.00
No. 063-E—Plain Spear and Pen, Ebony Handle, 3 3/8 in. Long, Weight Per Dozen 2 1/2 Lbs. 12.00

Weight Per Dozen 2 1/2 Pounds.



Jack, Two Blades, Large Spear and Pen, Glazed Finish, Brass Lined, Nickel Bolster and Cap.

No. 046-SEO—Easy Opener Stag Handle, 3 3/8 in. Long, Weight Per Dozen 2 1/2 Lbs. \$13.00



Two Blades, Large Broad Spear and Pen, Polished Mark Side, Brass Lined, Nickel Bolster and Cap.

No. 464-S—Stag Handle, 3 3/8 in. Long, Weight Per Dozen 3 Lbs. \$17.00

All Above, One-half Dozen in a Box.

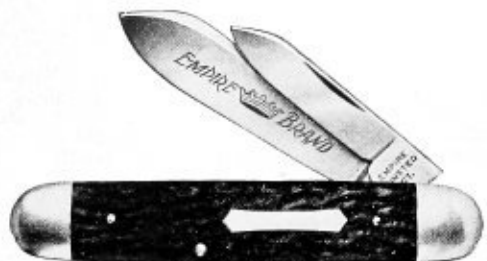
EMPIRE POCKET KNIVES



Cruckle Jack. Two Blades, Large Spear and Pen, Large Blade Polished One Side, Brass Lined, Nickel Bolster and Cap.

No. 2240-S — Stag Handle, 3 1/4 in. Long.....\$14.00
 No. 2240-SCH—Same as Above, with Chain.....15.00
 Weight Per Dozen 1 1/4 and 2 Pounds.

Per Dozen



Small Bullhead. Two Blades, Large Spear and Pen, Glazed Finish, Brass Lined, Nickel Bolster and Cap.

No. 054-S—Stag Handle, 3 3/8 in. Long, Weight Per Dozen 2 Lbs.....\$12.50

Per Dozen



Stabber, Norfolk Front. Two Blades, Large Spear and Pen, Large Blade Polished Mark Side, Brass Lined, Steel Bolster and Cap.

No. 2368-E — Ebony Handle, 3 5/8 in. Long.....\$13.00
 No. 2368-SCH—Stag Handle, with Chain.....14.00
 Weight Per Dozen 2 Pounds.

Per Dozen



Two Blades, Large Spear and Pen, Glazed Finish, Brass Lined, Nickel Bolster and Cap.

No. 062 1/2-S—Stag Handle, 3 5/8 in. Long, Weight Per Dozen 2 1/2 Lbs.....\$13.00

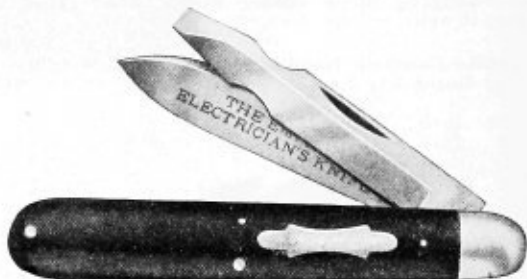
Per Dozen



Regulator. Two Blades, Large Spear and Pen, Large Blade Polished One Side, Brass Lined, Nickel Bolster and Cap.

No. 448-E—Ebony Handle, 4 1/4 in. Long, Weight Per Dozen 3 1/4 Lbs.....\$20.00

Per Dozen



Lock-Back Electricians'. Two Blades, Large Spear and Screw Driver, Glazed Finish, Brass Lined, Nickel Bolster.

No. 372-E—Ebony Handle, 3 5/8 in. Long, Weight Per Dozen 2 1/4 Lbs.....\$18.00

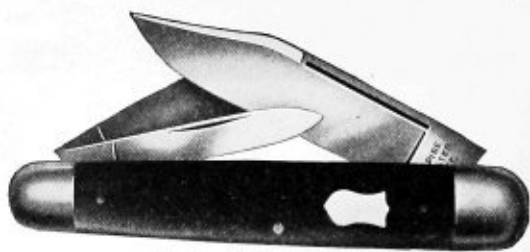
Per Dozen



Large Bullhead. Two Blades, Large Spear and Pen, Glazed Finish, Brass Lined, Steel Bolster and Cap.

No. 066-S—Stag Handle, 3 5/8 in. Long, Weight Per Dozen 2 1/2 Lbs.....\$13.00

Per Dozen



Sleeveboard. Three Blades, Large Clip, Sheep and Pen, Large Blade Polished One Side, Brass Lined, Nickel Bolsters.

No. 358-E—Ebony Handle, 3 5/8 in. Long, Weight Per Dozen 2 Lbs.....\$22.50

Per Dozen

All Above, One-half Dozen in a Box.

EMPIRE POCKET KNIVES



Carbo, Three Blades, Large Spear and Two Pens, Large Blade Polished One Side, Brass Lined, Nickel Silver Tips.
 No. 3209-S—Stag Handle, 3 1/4 in. Long, Weight Per Dozen 1 1/4 Lbs. \$22.00



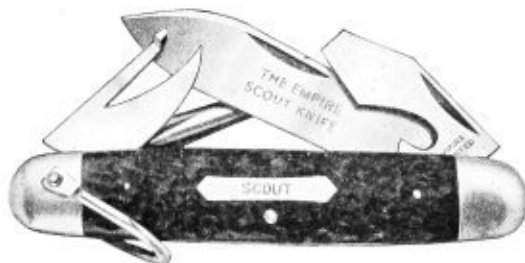
California Jack, Three Blades, Large and Small Clip and Pen, Large Blade Polished One Side, Brass Lined, Nickel Bolsters.
 No. 369 3/4-S—Stag Handle, 3 5/8 in. Long, Weight Per Dozen 1 1/4 Lbs. \$21.50



Carpenters', Three Blades, Spear, Sheepfoot and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Bolsters.
 No. 957-S—Stag Handle, 3 5/8 in. Long, Weight Per Dozen 2 1/4 Lbs. \$20.50



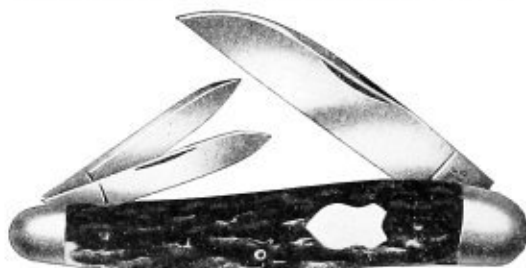
Scout Jr., Four Blades, Sheepfoot, Punch, Can Opener, Screwdriver and Cap-Lifter, Blade Polished One Side, Brass Lined, Nickel Bolsters and Shackle.
 No. 6-BS—Stag Handle, 3 3/8 in. Long, Weight Per Dozen 2 1/4 Lbs. \$21.00



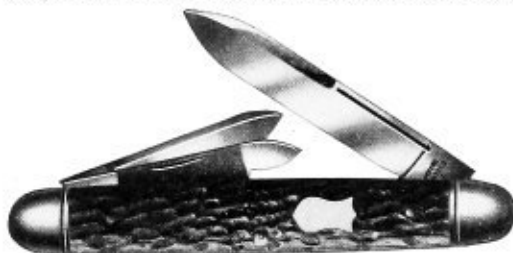
Regulation Boy Scout, Four Blades, Large Spear, Punch, Can Opener, Screwdriver and Cap Lifter, Spear, Blade Polished One Side, Brass Lined, Nickel Bolsters and Shackle.
 No. 4-BS—Stag Handle, 3 5/8 in. Long, Weight Per Dozen 3 Lbs. \$22.00



Tourist or Picnic, Four Blades, Spear Polished One Side, Flexible File, Combined Screwdriver and Cap Lifter, Cork Screw, Brass Lined, Nickel Bolster.
 No. 378-SF—Stag Handle, 3 1/8 in. Long, Weight Per Dozen 1 1/4 Lbs. \$35.00



Wharncliffe, Three Blades, Large Pocket Half Polished, and Two Pens, Brass Lined, Nickel Bolsters.
 No. 362-GS—Genuine Stag Handle, 3 5/8 in. Long, Weight Per Dozen 1 1/2 Lbs. \$23.50



Senator, Three Blades, Spear, Pen and Nail File, Spear Polished One Side, Brass Lined Nickel Bolsters.
 No. 929-S—Stag Handle, 3 1/2 in. Long, Weight Per Dozen 1 1/4 Lbs. \$20.00

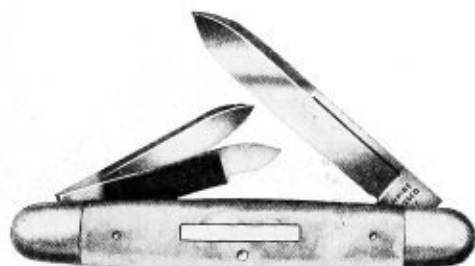
All Above, One-half Dozen in a Box.

EMPIRE POCKET KNIVES



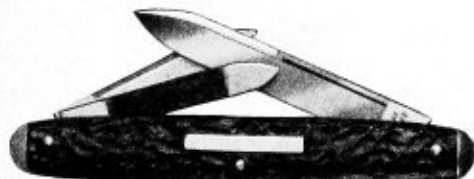
Oval Senator, Three Blades, Large Spear Polished One Side, Pen and Nail File, Brass Lined, Nickel Bolsters.

No. 928-S—Stag Handle, $3\frac{1}{4}$ in. Long, Weight Per Dozen $1\frac{1}{4}$ Lbs. \$19.50



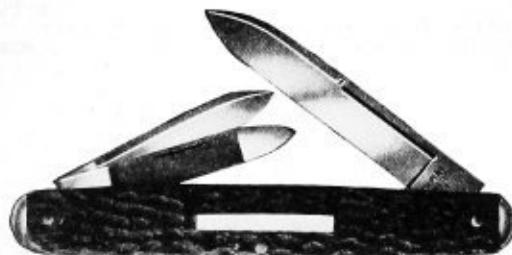
Oval Senator, Three Blades, Large Spear Polished One Side, Pen and Nail File, Brass Lined, Nickel Silver Tips.

No. 926-P—Pearl Handle, $3\frac{1}{4}$ in. Long, Weight Per Dozen $1\frac{1}{4}$ Lbs. \$36.00



Senator, Three Blades, Large Spear Polished One Side, Pen and Nail File, Brass Lined, Nickel Silver Tips.

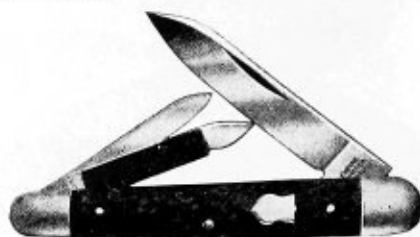
No. 324-S—Stag Handle, 3 in. Long, Weight Per Dozen 1 Lb. \$22.00



Senator, Three Blades, Large Spear Polished One Side, Pen and Nail File, Brass Lined, Nickel Silver Tips.

No. 938-S—Stag Handle, $3\frac{1}{2}$ in. Long. \$27.00
No. 938-P—Pearl Handle, $3\frac{1}{2}$ in. Long. 45.00

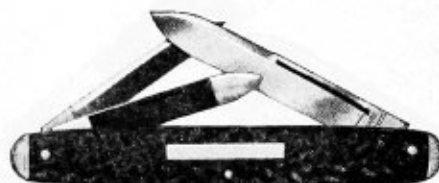
Weight Per Dozen $1\frac{1}{4}$ Pounds.



Sleeveboard, Three Blades, Large Spear Polished One Side, Pen and Nail File, Brass Lined, Nickel Bolsters.

No. 3273-S —Stag Handle, $2\frac{3}{4}$ in. Long. \$19.50
No. 3273-PB—Pearl Handle with Bail, $2\frac{3}{4}$ in. Long. 32.00

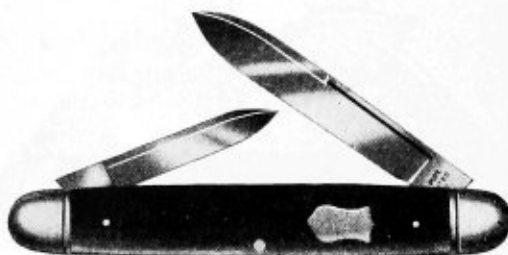
Weight Per Dozen 1 Pound.



Oval Senator, Three Blades, Large Spear Polished One Side, Pen and Nail File, Brass Lined, Nickel Silver Tips.

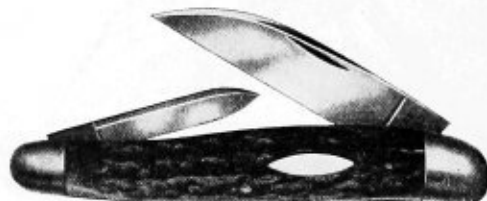
No. 940-S —Stag Handle, $3\frac{1}{4}$ in. Long. \$23.00
No. 940- $\frac{3}{4}$ -S—Four Blades, Large Spear, Two Pens and Nail File, Otherwise Same as No. 940-S. 27.00

Weight Per Dozen $1\frac{1}{4}$ Pounds.



Senator, Two Blades, Large Spear Polished One Side, and Pen, Brass Lined, Nickel Bolsters.

No. 919-E—Ebony Handle, $3\frac{1}{2}$ in. Long, Weight Per Dozen $1\frac{1}{4}$ Lbs. \$14.50



Wharnciffe, Two Blades, Large Blade Polished One Side, and Pen, Brass Lined, Nickel Silver Bolsters.

No. 302-S—Stag Handle, $3\frac{1}{2}$ in. Long, Weight Per Dozen 1 Lb. \$13.50

All Above, One-half Dozen in a Box.

EMPIRE POCKET KNIVES



Small Balloon, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Bolsters.

Per Dozen

No. 299-S—Stag Handle, 3 in. Long, Weight Per Dozen 1 Lb. \$13.00



Sleeve board, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Bolsters.

Per Dozen

No. 2203-E—Ebony Handle, 3 3/8 in. Long. \$13.50

No. 2203-S—Stag Handle 3 3/8 in. Long. 13.50

Weight Per Dozen 1 1/4 Pounds.



Congress, Two Blades, Large Sheepfoot and Pen, Glazed Finish, Brass Lined, Steel Bolsters.

Per Dozen

No. 656-S—Stag Handle, 3 1/2 in. Long, Weight Per Dozen 1 Lb. \$13.50



Medium Senator, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Bolsters.

Per Dozen

No. 781-S—Stag Handle, 3 in. Long, Weight Per Dozen 1 Lb. \$13.00



Oval Senator, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Silver Tips.

Per Dozen

No. 940 1/2-S—Stag Handle, 3 1/4 in. Long, Weight Per Dozen 1 Lb. \$15.00



Oval Senator, Two Blades, Large Spear and Nail File, Spear Blade Polished One Side and Etched Stainless, Nickel Silver Lining and Bolsters.

Per Dozen

No. 98258X—Stag Handle, Shielded, 3 1/4 in. Long. \$20.50

No. 98258X—Pearl Handle, No Shield. 36.00

Weight Per Dozen 1 Pound.



Sleeveboard, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Bolsters.

Per Dozen

No. 2273-S—Stag Handle, 2 7/8 in. Long. \$13.50

No. 2273-P—Pearl Handle, 2 7/8 in. Long. 22.50

Weight Per Dozen 1 Pound.



Senator, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Silver Tips.

Per Dozen

No. 322-S—Stag Handle, 3 in. Long, Weight Per Dozen 3/4 Lb. \$14.00

All Above, One-half Dozen in a Box.

EMPIRE POCKET KNIVES



Senator, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Stainless Steel Blades, Spring and Handle.

No. 027-ASET—Engine Turned Handle, $3\frac{1}{4}$ in. Long Per Dozen \$30.00
 No. 090-ASET— $3\frac{1}{4}$ in. Long, Same as Above..... 34.00

Weight Per Dozen 1 Pound.



Senator, Two Blades, Large Spear and Pen, Spear Blade Polished One Side.

No. 027-N—Nickel Silver Handle, $3\frac{1}{4}$ in. Long, Weight Per Dozen $\frac{3}{4}$ Lb.....\$14.00



Pumpkin Seed, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Bolsters.

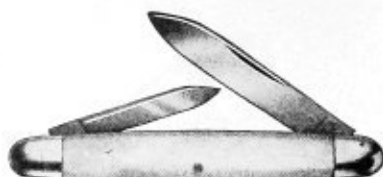
No. 650-S—Stag Handle, 3 in. Long..... Per Dozen \$12.50
 No. 941-P—Pearl Handle, 3 in. Long..... 20.50

Weight Per Dozen $\frac{3}{4}$ Pound.



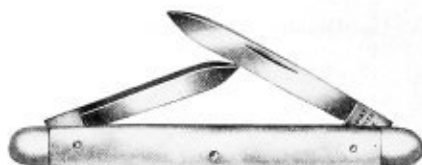
Senator, Two Blades, Large Spear and Pen, Spear Blade Polished One Side, Brass Lined, Nickel Bolsters.

No. 376-P—Pearl Handle, $2\frac{5}{8}$ in. Long, Weight Per Dozen $\frac{3}{4}$ Lb.....\$22.50



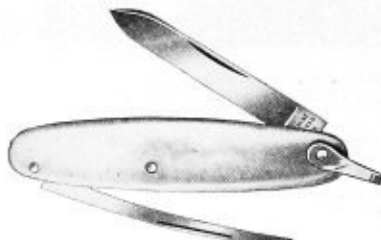
Senator, Two Blades, Large Spear and Pen, Spear Blade Glazed, Steel Lined, Nickel Bolsters.

No. 773-P—Pearl Handle, $2\frac{5}{8}$ in. Long, Weight Per Dozen $\frac{1}{2}$ Lb.....\$17.50



Roly Poly, Two Blades, Large Spear and Pen, Large Blade Polished One Side, Brass Lined, Nickel Bolsters.

No. 966-P—Pearl Handle, $2\frac{5}{8}$ in. Long, Weight Per Dozen $\frac{1}{2}$ Lb.....\$20.00



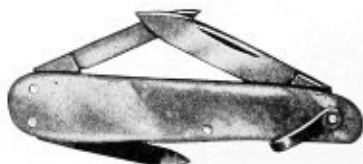
Oval Lobster, Two Blades, Large Spear and Nail Pick, Blade Polished One Side, Nickel Silver Lined, with Shackle.

No. 2314-PB—Pearl Handle, $2\frac{1}{4}$ in. Long, Weight Per Dozen 1 Lb.....\$28.50



Sleeveboard, Three Blades, Large Spear, Pen and Nail Pick, Large Blade Polished One Side, Nickel Silver Lined, with Shackle.

No. 3339-PB—Pearl Handle, $2\frac{5}{8}$ in. Long..... Per Dozen \$34.50
 No. 3339-NB—Nickel Silver Handle, $2\frac{5}{8}$ in. Long.. 18.50
 Weight Per Dozen $\frac{3}{4}$ Pound.

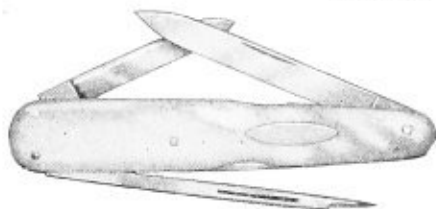


Carbo Lobster, Three Blades, Large Spear, Pen and Nail Pick, Large Blade Polished One Side, Nickel Silver Lined, with Shackle.

No. 3340-PB—Pearl Handle, $2\frac{1}{2}$ in. Long, Weight Per Dozen $\frac{3}{4}$ Lb.....\$38.50

All Above, One-half Dozen in a Box.

EMPIRE POCKET KNIVES



Lobster, Three Blades, Large Spear, Pen and Nail Pick, Large Blade Polished One Side, Nickel Silver Lined.

No. 516-P—Pearl Handle, 3 in. Long.....\$48.00
No. 516-PT—Same as Above with Nickel Silver Tips 48.00

Weight Per Dozen 1 Pound.



Senator, Three Blades, Large Spear, Flexible File and Scissors, Blade Polished One Side, Nickel Silver Lined, Nickel Silver Tips, Scale Milled.

No. 515-P—Pearl Handle, 3 1/4 in. Long.....\$56.00
No. 515-GS—Genuine Stag Handle, 3 1/4 in. Long.. 46.00

Weight Per Dozen 1 1/4 Pounds.



Senator, Four Blades, Large Spear, Two Pens and Nail File, all full Crocus Polished, Nickel Silver Lined, Milled Scales, Nickel Silver Tips.

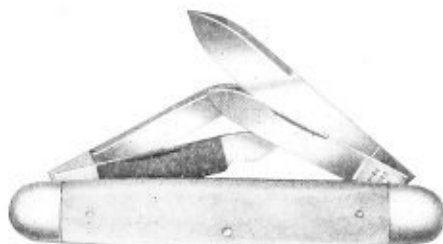
No. 334-P—Pearl Handle, 2 7/8 in. Long, Weight Per Dozen 3/4 Lb.....\$46.00



Senator, Four Blades, Large Spear, Two Pens and Nail File, Large Blade Polished One Side, Brass Lined, Nickel Silver Tips.

No. 326-S—Stag Handle, 3 in. Long.....\$25.00
No. 327-P—Pearl Handle, 3 in. Long..... 39.00

Weight Per Dozen 1 Pound.



Senator, Four Blades, Large Spear, Two Pens and Nail File, Large Blade Polished One Side, Brass Lined, Nickel Bolsters.

No. 781 3/4 -P—Pearl Handle, 3 in. Long.....\$33.50
No. 781 3/4 -S—Stag Handle, 3 in. Long..... 21.50

Weight Per Dozen 1 Pound.



Senator, Four Blades, Large Spear, Two Pens and Nail File, full Crocus Polished, Nickel Silver Lined, Nickel Silver Tips, Milled Scales.

No. 890-P—Pearl Handle, 3 1/4 in. Long, Weight Per Dozen 1 Lb.....\$50.00



Senator, Four Blades, Large Spear, Two Pens and Nail File, full Crocus Polished, Nickel Silver Lined, Nickel Silver Tips, Milled Scales.

No. 754-GS—Genuine Stag Handle, 3 1/2 in. Long, Weight Per Dozen 1 1/4 Lbs.....\$44.00



Senator, Four Blades, Large Spear, Two Pens and Nail File, full Crocus Polished, Nickel Silver Lined, Nickel Silver Tips, Milled Scales.

No. 893-P—Pearl Handle, 3 1/2 in. Long, Weight Per Dozen 1 1/4 Lbs.....\$54.00

All Above, One-half Dozen in a Box.

POCKET KNIVES

WOSTENHOLM I-XL



Two Blades, Large Spear and Pen, Glazed Finish, Brass Lined, German Silver Bolsters.

Per Dozen

No. 2019-A—Imitation Stag Handle, $3\frac{1}{4}$ in. Long,
Weight Per Dozen 1 Lb. \$30.00



Two Stainless Steel Blades, Large Spear and Pen, Glazed Finish, Brass Lined, German Silver Bolsters.

Per Dozen

No. B-41-D—Imitation Stag Handle, 3 in. Long,
Weight Per Dozen 13 Oz. \$34.00



Three Blades, Large Spear and Two Pens, Glazed Finish, Brass Lined, German Silver Bolsters.

Per Dozen

No. B-155—Imitation Stag Handle, $3\frac{1}{2}$ in. Long,
Weight Per Dozen 2 Lbs. \$35.00



Three Blades, Large Spear, Pen and Nail File, Polished, Brass Lined, German Silver Tips.

Per Dozen

No. 2143—Imitation Stag Handle, 3 in. Long,
Weight Per Dozen 12 Oz. \$54.00

No. 2144—Stag Handle, $3\frac{1}{4}$ in. Long, Weight Per
Dozen 18 Oz. 58.00



Four Blades, Large Spear, Two Pens and Nail File, Polished, Brass Lined, German Silver Tips.

Per Dozen

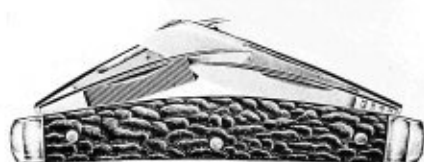
No. 2146—Imitation Stag Handle, $3\frac{1}{4}$ in. Long. \$60.00

No. 2200—Pearl Handle, $3\frac{1}{4}$ in. Long. 96.00

Weight Per Dozen $1\frac{1}{4}$ Pounds.

POCKET KNIVES

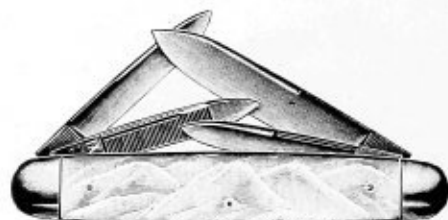
WOSTENHOLM I-XL



Congress, Four Blades, Large Sheepfoot, Two Pens and Nail File, Glazed Finish, Brass Lined, Iron Hollow Bolsters.

Per Dozen

No. 2160—Imitation Stag Handle, $3\frac{3}{8}$ in. Long,
Weight Per Dozen $1\frac{1}{4}$ Lbs. \$57.00



Four Blades, Large Spear, Two Pens and Nail File, Polished Blades, Brass Lined, German Silver Bolsters.

Per Dozen

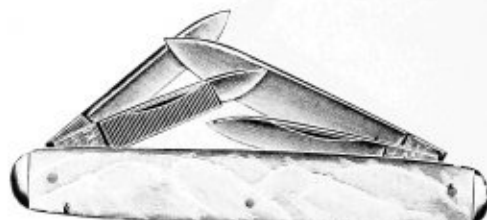
No. 16573—Pearl Handle, $3\frac{3}{8}$ in. Long, Weight
Per Dozen $1\frac{1}{2}$ Lbs. \$88.00



Four Blades, Large Spear, Two Pens and Nail File, Glazed Finish, Brass Lined, German Silver Bolsters.

Per Dozen

No. 17039—Imitation Stag Handle, $3\frac{3}{8}$ in. Long,
Weight Per Dozen $1\frac{1}{2}$ Lbs. \$60.00



Four Blades, Large Spear, Two Pens and Nail Files, Polished Blades, Brass Lined, German Silver Tips.

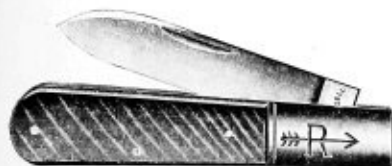
Per Dozen

No. 2199—Pearl Handle, 3 in. Long, Weight Per
Dozen 17 Oz. \$86.00

All Above, One-half Dozen in a Box.

BARLOW POCKET KNIVES

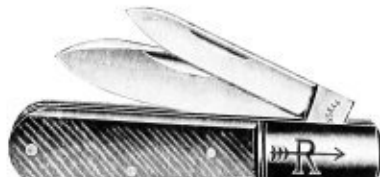
RUSSELL



One Blade, Spear Point, Glazed, Steel Lined, Heavy Steel Bolster.

Per Dozen

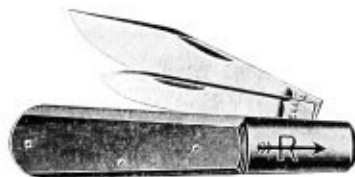
No. 60—Brown Bone Handle, 3 3/4 in. Long, Weight Per Dozen 1 3/4 Pounds\$5.25



Two Blades, Large Spear and Pen, Glazed, Steel Lined, Heavy Steel Bolster.

Per Dozen

No. 62—Brown Bone Handle, 3 3/4 in. Long, Weight Per Dozen 2 1/4 Lbs.\$7.50



Two Blades, Large Clip and Pen, Glazed, Steel Lined, Heavy Steel Bolster.

Per Dozen

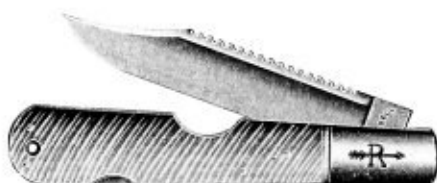
No. 66—Brown Bone Handle, 3 3/4 in. Long, Weight Per Dozen 2 1/4 Lbs.\$7.50



One Blade, Clip Point, Glazed, Brass Lined, Heavy Steel Bolster.

Per Dozen

No. 6000—Easy Opener, Brown Bone Handle, 5 in. Long, Weight Per Dozen 3 3/4 Lbs.\$11.00



Fishermans, One Clip Point Blade with Saw Back, Glazed, Brass Lined, Steel Bolster.

Per Dozen

No. 6—Lock Back Brown Bone Handle, 5 in. Long, with Pocket Case, Weight Per Dozen 3 3/4 Lbs.\$18.00

RACE KNIVES

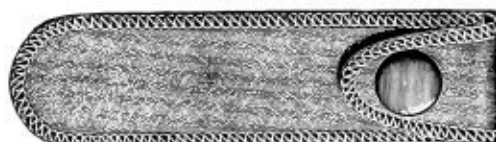


For Woodworkers, Plasterers, Electricians, etc. For marking and grooving.

Per Dozen

No. 135—Redwood Handle, 3 1/2 in. Long, Steel Lined, Steel Bolster\$18.00
One-half Dozen in a Box.

POCKET KNIFE PURSES



Fine Kid Leather, Snap Button Fastener

| | | | | |
|----------------|--------|------|-------|------|
| Nos. | 1 | 2 | 3 | 5 |
| Length, Inches | 2 1/2 | 3 | 3 1/2 | 5 |
| Per Dozen | \$1.00 | 1.00 | 1.00 | 1.00 |

Open Stock.

SAFETY RAZOR BLADES

GEM DOUBLE LIFE BLADES



Ingeniously prepared and tempered steel, ground with minute and exacting care.

The edge of each blade is protected, packed individually and hermetically sealed in wax paper-covered packages.

Per Package

No. 6—6 Blades in a Package, 24 Packages in a Carton\$0.42

EVER-READY RADIO STEEL BLADES



The cutting edge is one ten-thousands of an inch thick. Each blade protected by paraffine cardboard and wrapped in climate proof paper in a seal locked wrapper.

Per Package

No. 5—5 Blades in a Package, 24 Packages in a Carton\$0.35

SAFETY RAZOR BLADES

DURHAM DUPLEX



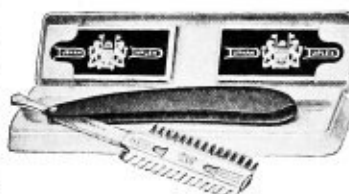
Made of the finest Swedish Steel, Hardened, Oil Tempered, Hollow Ground, Honed, Stropped and Hand Inspected. Each Package Hermetically Sealed in Waxed Paper.

Per Package

No. 5D—5 Blades in a Package (10 Shaving Edges)\$0.50

SAFETY RAZORS

DURHAM DUPLEX



Each
No. 1—Standard Set, Nickel Plated Razor with Grained White Celluloid Handle, Safety Guard and Package of Three Double-Edged Hollow Ground Blades, All in Grained White Celluloid Case...\$1.00

GEM SAFETY RAZORS

The Original Safety Razor. The Adjustment is entirely Automatic.



Standard

Triple Nickel Plated Brass Gem Frame, Handle and Blade Box, with Six Gem Double Life Blades.

Each

Standard—All in Black Covered Wood Case, Purple Velvet Lined, Size $3\frac{3}{4} \times 2 \times 1\frac{1}{2}$ in. \$1.00

EVER-READY SAFETY RAZORS



Triple Nickel Plated Brass Ever-Ready Frame, Handle and Blade Box, with Five Ever-Ready Radio Steel Blades.

Each

Sedan—All in a Square Flat Maroon Cloth-Leather Extension Top and Bottom Case, Red Satin and Velvet Lined, Size $3\frac{3}{4} \times 3 \times 1\frac{1}{2}$ in. \$1.00



Triple Nickel Plated Brass Ever-Ready Frame, Handle and Blade Box, with Five Ever-Ready Radio Steel Blades.

Each

Mahoganite—All in Rich Rare Mahoganite Hand Finished Wood Case, Size $3\frac{3}{4} \times 2\frac{1}{2} \times 1\frac{1}{2}$ in. \$1.00

VALET AUTO-STROP SAFETY RAZORS

The only Automatic Stropping Safety Razor on the market. It shaves, Strops automatically and cleans without removing the Blade from the holder.



Triple Silver Plated Self-stropping Razor, 10 Auto-Strop Blades, specially prepared selected Leather Strop, Silver Plated Strop Container, Chased Silver Plated Blade Box.

Each

Silver Standard—In Black Sealgrain Leather Case, Purple Silk and Velvet Lined. \$5.00



Metal Case Outfit

Triple Silver Plated Self-stropping Razor, 10 Auto-Strop Blades, specially prepared selected Leather Strop, Chased Silver Plated Strop Container and Blade Box.

Each

Londoner—Nickel Plated Metal Case, Purple Silk and Velvet Lined. \$5.00

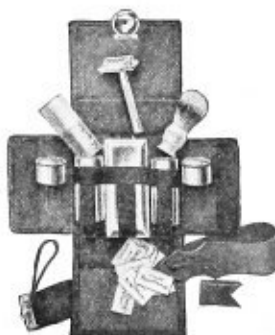


Metal Case Outfit

Triple Silver Plated Self-stropping Razor, 10 Auto-Strop Blades, specially prepared selected Leather Strop, Chased Silver Plated Strop Container and Blade Box.

Each

New Yorker—Nickel Plated Metal Case with Embossed Cover, Purple Silk and Velvet Lined. \$5.00



Leather Case Outfit

Contains 1 Londoner Metal Case Outfit as described above, showing Brush in Silver Plated Tube, Shaving Stick in Silver Plated Tube.

Each

Tourist—Flexible Black Leather Case, Velvet Lined. \$10.00

SAFETY RAZOR BLADES

VALET AUTO-STROP



Carefully made, finished and tested, each in Moisture-proof Wrapper.

Per Package
No. 10—10 Blades in a Package, 12 Packages in a Carton.....\$1.00
No. 5—5 Blades in a Package, 24 Packages in a Carton..... .50

SAFETY RAZOR STROPS

VALET AUTO-STROP



Made of Fine Grade Selected Leather Specially Prepared, Containing No Harmful Substances.

Each
No. X—14 1/2 x 1 1/2 in....\$0.50
No. XX—18 1/2 x 1 1/2 in., an Extra Long Strop Affording a Longer Stroke... 1.00

GILLETTE SAFETY RAZORS

NEW IMPROVED

The leading features of the New Improved Gillette are: The Fulcrum Shoulder, Overhanging Cap, Adjustable Short Flexure, Channeled Guard and Micrometer Precision. The finest shaving instrument ever produced. The distinctive knurling is used exclusively on the New Improved Gillette Razor.



Each

New Standard—Solid Metal Heavily Silver Plated Razor, 10 Double Edged Gillette Blades, Metal Blade Box, All in Purple Velvet and Satin Lined Genuine Leather Covered Case.....\$5.00



Each

Bostonian—Solid Metal Heavily Silver Plated Razor, 10 Double Edge Gillette Blades, Metal Blade Box, All in Purple Velvet and Satin Lined Nickel Plated Metal Case, Opening of Cover Automatically Raises Tray Containing Razor and Blade Box.....\$5.00



Each

Traveler—Solid Metal Heavily Silver Plated Razor, 10 Double Edged Gillette Blades, Metal Blade Box, Shaving Brush and Stick Gillette Shaving Soap in Metal Container, All in Purple Velvet and Satin Lined Genuine Leather Case.....\$7.50



Each

Big Fellow—Extra Heavy Solid Metal Heavily Silver Plated Razor, 10 Double Edged Gillette Blades, Metal Blade Box, All in Selected Natural Finish Gumwood Case....\$5.00



Each

Tuckaway—Solid Metal Heavily Silver Plated Razor, 10 Double Edged Gillette Blades, Metal Blade Box, All in Purple Velvet and Satin Lined Heavily Silver Plated Case, a Small Compact Set.....\$5.00

Tuckaway "G"—Gold Plated Razor, Blade Box and Case. 6.00

GILLETTE BLADES



Made from Special Formula Steel have two cutting edges. Each Blade is placed in individual envelope and put up in a sealed package. Per Package
No. 10—10 Blades in a Package, 10 Packages in a Carton...\$1.00
No. 5—5 Blades in a Package, 20 Packages in a Carton... .50

RAZORS

HENCKELS TWIN BRAND



Special Concave, Extra Fine Polish, File Tang, Flat Black Rubber Handle.

No. 16— $\frac{5}{8}$ in. Square Point Blades.....\$54.00

Per Dozen



Half Hollow Ground, Flat Black Rubber Handle.

No. 18 $\frac{3}{4}$ — $\frac{5}{8}$ in. Square Point Blade.....\$42.00

No. 18 $\frac{1}{4}$ — $\frac{3}{4}$ in. Square Point Blade.....42.00

Per Dozen



Full Concave, File Tang, Fancy Oval Black Rubber Handle.

No. 81— $\frac{5}{8}$ in. Round Point Blade.....\$54.00

Per Dozen

TORREY HIGHEST QUALITY

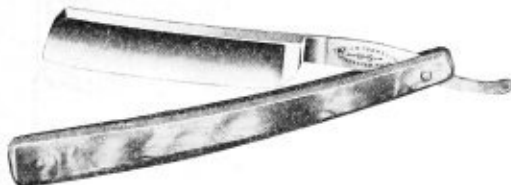


Full Concave, Brilliant Crocus Polished, Oval Black Rubber Handle.

No. 136 $\frac{5}{8}$ — $\frac{5}{8}$ in. Round Point Blade.....\$48.00

No. 136 $\frac{3}{4}$ — $\frac{3}{4}$ in. Round Point Blade.....48.00

Per Dozen



Full Concave, Swage Back, Selected Pearl Tang, Full Crocus Polished, Flat Black Rubber Handle.

No. 992— $\frac{5}{8}$ in. Square Point Blade.....\$60.00

Per Dozen

All Above, One-half Dozen in a Box.

RAZORS

RED-INJUN



Special Full Hamburg Ground, File Tang, Full Polished, Oval Black Rubber Handle. Embodies perfection in the art of razor grinding and honing.

No. 100— $\frac{1}{2}$ in. Square Point Blade.....\$48.00

No. 101— $\frac{5}{8}$ in. Square Point Blade.....48.00

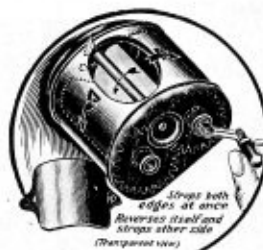
Per Dozen

One-half Dozen in a Box.

SAFETY RAZOR STROPPERS

TWINPLEX

The Mechanism is enclosed in a Metal Dust Proof Case.



Operation—(See transparent view). The two rollers revolve in opposite directions, each stropping a different edge. At each complete revolution the blade automatically turns over and the rollers strop the other side, first a stroke on one side, then on the other, just as the Barber does.



No. G200.



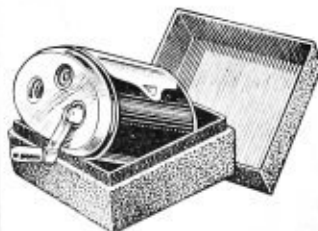
No. D650.

Standard Model

No. G200—For Gillette Blades, in Highly Polished Hinged Nickel Case, Purple Satin Lined, Size 3x3 in., 2 in. Thick.....\$5.00

No. D650—For Durham Duplex Blades, in a Snug Fitting Artificial Leather Case, Full Grained, Purple Lined, Gold Stamping.....5.00

One in a Box.



Black Beauty

Like the Regular Twinplex Model Except the Finish. Rust-resisting Black Enamel Metal Case. Nickel Plated Ends, in Gold Stamped Purple Imitation Leather Case.

No. GX—For Gillette Blades.....\$3.50

No. DX—For Durham Duplex Blades.....3.50

One in a Box.

RAZOR STROPS

CARBORUNDUM

Carborundum Razor Stropps are made from the finest of selected leather, hand buffed and finished.

The sharpening sides of some of these stropps are corrugated and into the corrugations and into the texture of the leather extremely fine hand-washed carborundum powder is worked.



Per Dozen

- No. 457—2x22 in., Medium Weight Selected Horsehide, Plain Handle, Brass Eyelet Holder.....\$15.00
One Dozen in a Box.



Per Dozen

- No. 440—2½x26 in., Heavy Genuine Horsehide, Embossed Leather Ordinary Handle, Gilt Brass Split Ring Swivel.....\$24.00
One-half Dozen in a Box.



Per Dozen

- No. 456—2½x25 in., Double Strop, One Black the Other Red, Black Strop is Filled with Carborundum Powder, Plain Handle, Metal Tip and Single Ring Holder.....\$27.00
One-half Dozen in a Box.



Per Dozen

- No. 454—2½x22 in., Combination, One Black the Other Satin Tan, Black Strop is Genuine Horsehide, Tan, Genuine Shell Horsehide, Cavalry Style Metal Trimmings.....\$36.00
One-half Dozen in a Box.

PRESTO



Nos. 200B and 250B.

Selected Pig Skin Leather

Each

- No. 200B—Private Style Safety Razor Size, 2x19 in., Double, One for Honing and One for Finishing, Nickel Plated Metal Loop and Handle.....\$2.50
No. 200A—Barbers' Style, Safety Razor Size, 2x2½ in., Same as No. 200B but without Handles.....2.50
No. 250B—Private Style, 2½x22 in., One for Honing and One for Finishing, Nickel Plated Metal Loop and Handle.....3.00
No. 250A—Barbers' Style, Double, 2½x23½ in., Same as No. 250B but without Handles.....3.00

SAFETY RAZOR BLADE HOLDER



Presto—A Holder that Will Accommodate All Makes of Safety Razor Blades, Fits the Palm of the Hand and Easy to Operate.....\$0.75

RAZOR HONES

BELGIAN



No. 111—Half Fine Grade

A Natural Hone, very popular among Barbers on account of the remarkably fine and soft texture of its grit, consists of two distinct layers of entirely different material.

| | | | | |
|---------------------|---------|-------|-------|-------|
| Length, Inches..... | 5 | 6 | 7 | 8 |
| Per Dozen..... | \$18.00 | 24.00 | 30.00 | 36.00 |

One in Individual Telescope Box.

PIKE HANDHONE



Can be Used Wet or Dry

A Hone for Barbers, on account of its oval shape it fits the palm of the hand conveniently.

| | |
|-----------------------------------|--------|
| No. 205—Oval Shape, 4x2x½ in..... | \$4.80 |
|-----------------------------------|--------|

One in Individual Box.

PIKE SWATY



A Composition Hone

Extra Fine Grit. Dark Reddish Color. Imparts a Smooth, Keen Edge.

| | |
|--|--------|
| No. 1—5x2x½ in., May be Used Dry or with Oil or Water..... | \$7.20 |
|--|--------|

One in Individual Box.

CARBORUNDUM



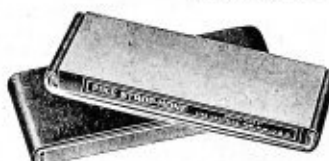
Made of Extra Fine Hand-Washed Carborundum Powder Unexcelled for Fast Cutting Qualities and for Producing a Keen, Lasting Edge.

| | | | | | |
|-------------------|--------|-------|-------|-------|--------|
| Nos..... | 105 | 101A | 103 | *106 | 102 |
| Size, Inches..... | 8x2½x¾ | 5x2x½ | 4x2x½ | 4x2x½ | 4x1½x¼ |
| Each..... | \$2.75 | 1.35 | 1.15 | 1.00 | .75 |

*A Dry Hone.

No. 105, Three; Balance, Six in a Box.

PIKE STROP-HONE



Has Two Sides, One a Hone the other a Strop. Hone is used Dry, no Water, Oil or Lather required. Strop is held scientifically taut and cannot Sag. A few strokes will edge any razor.

| | |
|------------------------|---------|
| No. 207—5½x2x½ in..... | \$12.00 |
|------------------------|---------|

One in a Box.

LATHER BRUSHES

RUBBERSET

The Butt End of the Bristles are imbedded in a Solid Head of Soft Rubber and Vulcanized to the Hardness of Flint.



Ebonized Wood Handle

No. 415—2 in. Selected Black China Bristles, Nickel Plated Steel Ferrule, Length Over All $4\frac{1}{2}$ in. \$3.60



Ebonized Wood Handle

No. 218—2 in. Blended Badger Hair, Alberite Black Ferrule, Length Over All $4\frac{1}{2}$ in. \$10.50



Celluloid White Handle

No. 150-1—2 in. Best Rachto Bristle, Celluloid Black Ferrule, Length Over All $4\frac{1}{2}$ in. \$8.50



Alberite White Handle

No. 221—1 $\frac{1}{2}$ in. Blended Badger Hair, Alberite Black Ferrule, Length Over All $4\frac{1}{2}$ in. \$13.50



Alberite White Handle

No. 228—2 $\frac{1}{2}$ in. Blended Hair, Alberite Black Ferrule, Length Over All $4\frac{1}{2}$ in. \$24.00



Alberite White Handle

No. 230—2 $\frac{1}{2}$ in. Imported Badger Hair, Alberite Black Ferrule, Length Over All $4\frac{1}{2}$ in. \$20.00

All Above, One-half Dozen in a Box.

TOILET CLIPPERS

TIGER



Tempered Tool Steel Blades, Concealed Spring, Finely Finished and Nickel Plated. A Small Light Weight Clipper.

No. 000—Cuts Equal to a Shave. Each \$2.00
No. 00—Cuts Very Close. 2.00

One in a Box.

AMERICAN GENTLEMAN



A wonderful hair clipper for family use. Clips fast, stays sharp for years. Fits the hand. Has easy action. Adjustable tension. A better hair clipper can not be had at any price.

No. 000—Cuts Close, Equal to a Shave. Each \$3.00
No. 00—For a Snug Clip, Not Quite so Close. 3.00

One in an Attractive Box.

B. & S. BRESSANT



Nickel Plated

Tool Steel Corrugated Bottom Plate. 2 in. Wide, Uniform Tension, Winged Nut, Indestructible Spiral Spring. Plates are Interchangeable for All Sizes.

| Nos. | 000 | 00 | 0 | 1 |
|-------------------|--------|----------------|---------------|---------------|
| Cuts Hair, Inches | Shave | $\frac{1}{16}$ | $\frac{1}{8}$ | $\frac{1}{4}$ |
| Each | \$4.50 | 4.50 | 4.50 | 4.50 |

HORSE CLIPPERS



Anti-Friction Bearings, Nickel Plated, Polished Satin Wood Handles, Nickel Plated Metal Ferrules.

Ball Bearing—Length Over All 11 in. Each \$4.00

One in a Box.

SHEARS

WISS STRAIGHT TRIMMERS



Crucible Steel Inlaid Blades, Hardened and Tempered, Ground and Set for Use.

Full Nickel Plated

| | | | | |
|-------------------------|---------|-------|-------|-------|
| Nos. | 136 | 136½ | 137 | 137½ |
| Length, Inches | 6 | 6½ | 7 | 7½ |
| Length Cut, Inches..... | 2¾ | 3 | 3¼ | 3½ |
| Per Dozen | \$16.15 | 17.50 | 18.65 | 19.60 |

| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 138 | 138½ | 139 |
| Length, Inches | 8 | 8½ | 9 |
| Length Cut, Inches..... | 3¾ | 4 | 4¼ |
| Per Dozen | \$20.50 | 21.65 | 25.70 |

Japanned Handles, Nickel Plated Blades

| | | | | | |
|-------------------------|---------|-------|-------|-------|-------|
| Nos. | 36 | 36½ | 37 | 37½ | 38 |
| Length, Inches | 6 | 6½ | 7 | 7½ | 8 |
| Length Cut, Inches..... | 2¾ | 3 | 3¼ | 3½ | 3¾ |
| Per Dozen | \$13.85 | 14.75 | 15.50 | 16.35 | 17.30 |

| | | | | |
|-------------------------|---------|-------|-------|-------|
| Nos. | 38½ | 39 | 30 | 32 |
| Length, Inches | 8½ | 9 | 10 | 12 |
| Length Cut, Inches..... | 4 | 4¼ | 4¾ | 6½ |
| Per Dozen | \$18.20 | 21.65 | 26.75 | 32.80 |

One-half Dozen in a Box.

WISS BENT TRIMMERS



Crucible Steel Inlaid Blades, Hardened and Tempered, Ground and Set for Use.

Full Nickel Plated

| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 126 | 126½ | 127 |
| Length, Inches | 6 | 6½ | 7 |
| Length Cut, Inches..... | 2½ | 2¾ | 3¼ |
| Per Dozen | \$17.60 | 18.50 | 19.60 |

| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 127½ | 128 | 128½ |
| Length, Inches | 7½ | 8 | 8½ |
| Length Cut, Inches..... | 3¾ | 3¾ | 4 |
| Per Dozen | \$20.55 | 21.65 | 24.55 |

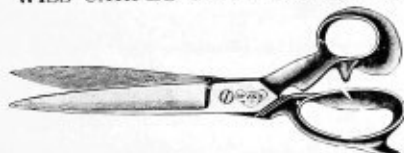
Japanned Handles, Nickel Plated Blades

| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 27½ | 28 | 28½ |
| Length, Inches | 7½ | 8 | 8½ |
| Length Cut, Inches..... | 3¾ | 3¾ | 4 |
| Per Dozen | \$17.30 | 18.20 | 20.60 |

| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 29 | 20 | 22 |
| Length, Inches | 9 | 10 | 12 |
| Length Cut, Inches..... | 4¼ | 5 | 6¼ |
| Per Dozen | \$24.25 | 29.15 | 34.65 |

One-half Dozen in a Box.

WISS CARPET OR UPHOLSTERERS

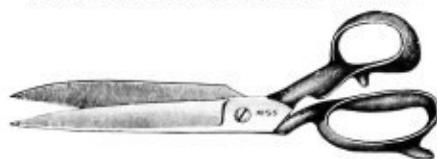


Crucible Steel Inlaid Blades, Fitted with Steel Screw and Nut. Japanned Handles, Polished Blades.

No. 4-IS—Length of Cut 6¼ in., Full Length 12 in. . . \$5.50
Each
One in a Box.

SHEARS

WISS CARPET OR UPHOLSTERERS

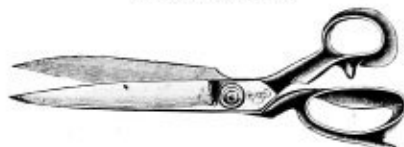


With Raised Blade

Crucible Steel Inlaid Blades, Fitted with Steel Screw and Nut, Polished Blades, Japanned Handles.

No. 3½ N.I.S.—Length 12½ in., Length of Cut 6¼ inches . . . \$6.50
Each
One in a Box.

WISS TAILORS



Light Pattern

Crucible Steel Inlaid Blades, Polished, Japanned Handles.

| | | | |
|-------------------------|--------|------|------|
| Nos. | 3N | 3½N | 4N |
| Length, Inches | 12 | 12½ | 12¾ |
| Length Cut, Inches..... | 6¼ | 6¼ | 6½ |
| Each | \$7.00 | 7.50 | 8.25 |

One in a Box.

WISS CANDY



Heavy Pattern

Crucible Steel Inlaid Blades, Bent Japanned Handles, Nickel Plated Blades.

No. 12½—Length 12½ in., Length of Cut 6½ in. . . \$3.40
Each

WISS GLASS

Crucible Steel Inlaid Blades, Nickel Plated, Japanned Handles.



No. 11B—Blunt Points, Length 11 in., Length of Cut 5¼ in. . . \$33.00
Per Dozen



No. 11-SP—Sharp Points, Length 11 in., Length of Cut 6¼ in. . . \$30.00
Per Dozen

SHEARS**CAST STRAIGHT TRIMMERS****No. 350—Carbonized Metal**

Heavily Nickel Plated, Adjusted with Steel Screw, in Anti-rust Paper Pocket.

| | | | |
|----------------|--------|------|------|
| Length, Inches | 6 | 7 | 8 |
| Per Dozen | \$6.00 | 6.50 | 7.00 |

One-half Dozen in a Box.

WISS LEATHER OR BELT**One Serrated and One Knife Edge**

Crucible Steel Inlaid Blades, Polished, Japanned Handles.

| | | |
|-----------------------|---------|-------|
| Nos. | 1 | 2 |
| Length, Inches | 9 | 11 |
| Length of Cut, Inches | 3 | 5 1/2 |
| Per Dozen | \$31.50 | 40.00 |

WISS ROACHING OR FETLOCK**Crucible Steel Inlaid Blades**

Japanned Trimmer Handles, Polished Curved Blades.

| | | |
|--|-----------|---------|
| No. 01—Length 9 in., Length of Cut 4 in. | Per Dozen | \$31.50 |
|--|-----------|---------|

WISS BANKERS OR PAPERHANGERS

Crucible Steel Inlaid Blades, Hardened and Tempered.

Full Nickel Plated

| | | | |
|----------------|---------|-------|-------|
| Nos. | 180 | 182 | 184 |
| Length, Inches | 10 | 12 | 14 |
| Per Dozen | \$31.75 | 39.00 | 49.05 |

Japanned Handles, Nickel Plated Blades

| | | | |
|--------------------|---------|-------|-------|
| Nos. | 80 | 82 | 84 |
| Length, Inches | 10 | 12 | 14 |
| Length Cut, Inches | 5 1/2 | 7 1/4 | 9 |
| Per Dozen | \$26.75 | 32.60 | 41.30 |

One-half Dozen in a Box.

SHEARS**WISS BARBERS**

American Pattern, Crucible Steel Inlaid Blades.

Full Nickel Plated

| | | | |
|--------------------|---------|---------|-------|
| Nos. | 147 | 147 1/2 | 148 |
| Length, Inches | 7 | 7 1/2 | 8 |
| Length Cut, Inches | 3 1/8 | 3 3/8 | 3 5/8 |
| Per Dozen | \$18.50 | 19.60 | 20.50 |

Japanned Handles, Nickel Plated Blades

| | | | |
|--------------------|---------|--------|-------|
| Nos. | 47 | 47 1/2 | 48 |
| Length, Inches | 7 | 7 1/2 | 8 |
| Length Cut, Inches | 3 1/8 | 3 3/8 | 3 5/8 |
| Per Dozen | \$15.50 | 16.35 | 17.60 |

One-half Dozen in a Box.

**Solid Steel**

Polished Blades, Nickel Plated Handles, Extra Fine Finish.

| | | |
|--------------------|---------|---------|
| Nos. | 347 | 347 1/2 |
| Length, Inches | 7 | 7 1/2 |
| Length Cut, Inches | 2 3/4 | 3 1/8 |
| Per Dozen | \$20.30 | 21.70 |

One-half Dozen in a Box.

BOKER BARBERS**French Pattern**

Best Crucible Steel, Full Polished, Glazed Inside.

| | | |
|----------------|---------|------------|
| Nos. | 1005/7 | 1005/7 1/2 |
| Length, Inches | 7 | 7 1/2 |
| Per Dozen | \$12.00 | 12.60 |

One-half Dozen in a Box.

EDITORS OR DESK SCISSORS**WISS****Crucible Steel, Ring Handles, Full Nickel Plated**

| | | |
|----------------|---------|-------|
| Nos. | 198 | 199 |
| Length, Inches | 8 | 9 |
| Per Dozen | \$20.50 | 25.70 |

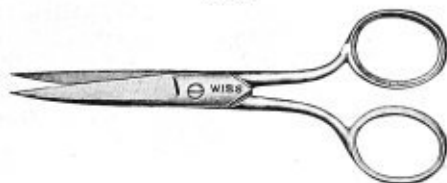
Japanned Handles, Nickel Plated Blades

| | | |
|----------------|---------|-------|
| Nos. | 98 | 99 |
| Length, Inches | 8 | 9 |
| Per Dozen | \$17.60 | 21.65 |

One-half Dozen in a Box.

LADIES SCISSORS

WISS



Oval Pattern

Solid Steel, Sharp Points, Full Nickel Finish.

| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 763½ | 764½ | 765 |
| Length, Inches | 3½ | 4½ | 5 |
| Length Cut, Inches..... | 1¼ | 1¾ | 2 |
| Per Dozen | \$12.00 | 13.20 | 13.80 |
| Nos. | 765½ | 766 | |
| Length, Inches | 5½ | 6 | |
| Length Cut, Inches..... | 2¼ | 2½ | |
| Per Dozen | \$14.40 | 15.00 | |

One-half Dozen in a Box.



Flat Pattern

Solid Steel, Ring Handles, Full Nickel Plated.

| | | | | |
|-------------------------|---------|-------|-------|-------|
| Nos. | 154½ | 155 | 155½ | 156 |
| Length, Inches | 4½ | 5 | 5½ | 6 |
| Length Cut, Inches..... | 2 | 2¼ | 2½ | 2¾ |
| Per Dozen | \$12.00 | 12.80 | 13.20 | 13.80 |

One-half Dozen in a Box.



Light Pattern

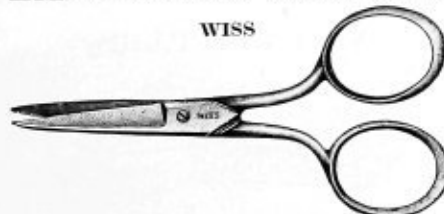
Solid Steel, Full Nickel Plated, Extra Fine Finish.

| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 814 | 814½ | 815 |
| Length, Inches | 4 | 4½ | 5 |
| Length Cut, Inches..... | 1¾ | 2 | 2¼ |
| Per Dozen | \$14.40 | 15.60 | 16.80 |
| Nos. | 815½ | 816 | 817 |
| Length, Inches | 5½ | 6 | 7 |
| Length Cut, Inches..... | 2½ | 2¾ | 3½ |
| Per Dozen | \$17.40 | 18.00 | 21.60 |

One-half Dozen in a Box.

EMBROIDERY SCISSORS

WISS



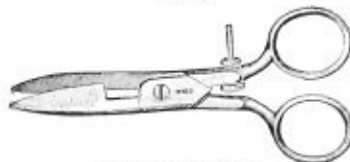
Solid Steel, Full Nickel Plated, Extra Fine Finish.

| | | |
|-------------------------|---------|-------|
| Nos. | 773½ | 774 |
| Length, Inches | 3½ | 4 |
| Length Cut, Inches..... | 1¼ | 1½ |
| Per Dozen | \$13.80 | 14.40 |

One-half Dozen in a Box.

BUTTONHOLE SCISSORS

WISS



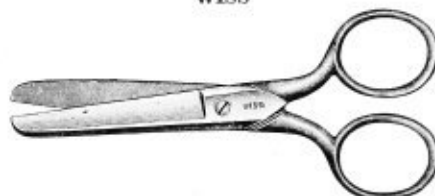
Regular Pattern

Solid Steel, Japanned Handles, Nickel Plated Blades.

No. 4—Length 4¾ in., with Set Screw and Lock
Nut, Will Cut Button Holes Up to 1¼ in. \$15.00
One-half Dozen in a Box.

POCKET SCISSORS

WISS



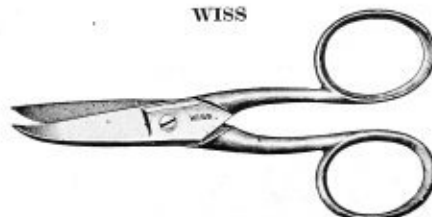
Solid Steel, Full Nickel Plated

| | | | |
|-------------------------|---------|-------|-------|
| Nos. | 164 | 164½ | 165 |
| Length, Inches | 4 | 4½ | 5 |
| Length Cut, Inches..... | 1¾ | 2 | 2¼ |
| Per Dozen | \$12.00 | 12.60 | 13.20 |

One-half Dozen in a Box.

NAIL SCISSORS

WISS



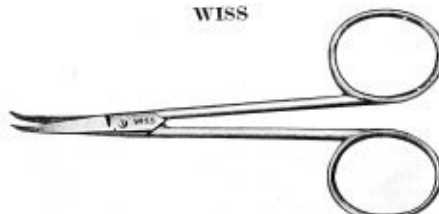
Solid Steel, Curved Blades, Full Nickel Plated

| | | |
|----------------------|---------|-------|
| Nos. | 663 | 664 |
| Length, Inches | 3 | 4 |
| Per Dozen | \$15.00 | 18.00 |

One-half Dozen in a Box.

MANICURE SCISSORS

WISS



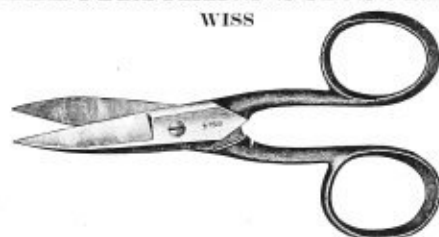
Solid Steel

Curved Blades, Full Nickel Plated, Extra Fine Finish.

No. 573¾—Length 3¾ in. \$16.20
One-half Dozen in a Box.

ELECTRICIANS SCISSORS

WISS



Solid Steel, Full Nickel Plated

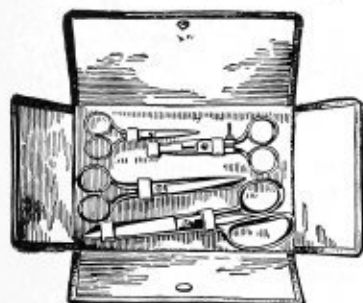
Specially Hard Tempered Points for Cutting Wire, Insulation and Light Sheet Metal. Has Scraper Edge and File on Back of Blades.

No. 175E—Length 5 in., Cut 1 7/8 in. \$14.55

One-half Dozen in a Box.

SCISSOR GIFT SETS

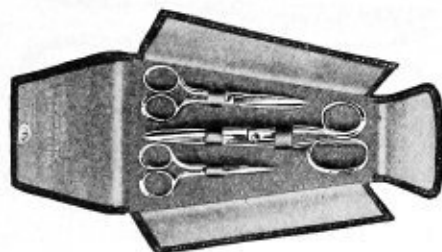
WISS



An exceptionally fine set. Containing a complete assortment of shears and scissors for dressmaking and household use.

Embossed Gray Leather Case, Lined with Fancy-Color Satin and Plush

No. 4A—Contains One Each, 7 in. Sewing Shear, 5 and 6 in. Ladies Scissors and 3 1/2 in. Embroidery Scissors, Nickel Plated with Gold Plated Handles. \$10.00



Contains a balanced assortment of Shears and Scissors Selected for Home Dressmaking.

Brown Leather Case Richly Stamped with a Leaf Design, Sand-Color Satin Lining

No. 3A—Contains One Each, 7 in. Household Shear, 5 in. Ladies Scissors and 3 1/2 in. Embroidery Scissors, Nickel Plated with Gold Plated Handles. \$7.50



Accordian Case of Brown Pin Leather, Sand-Color Satin Lining

No. 14—Contains One Each 7 in. Sewing Shear, 5 in. and 6 in. Ladies Scissors and 3 1/2 in. Embroidery Scissors, Highly Nickel Plated. \$9.00

SCISSOR GIFT SETS

WISS



Case is daintily made of genuine leather in three color combinations:

Navy blue with powder blue satin lining, gray leather with royal blue lining and purple leather with gold lining.

Per Set

No. 1—Contains Two Gold Plated Scissors, One 5 in. Ladies and One 3 1/2 in. Embroidery Scissors. \$4.75

BOKER



Genuine Leather Coffin Shaped Case

Per Set

No. 3001—Blue Leather Case, Velveteen Lining, Contains 2 Crucible Steel Drop Forged Fancy Bow Scissors. \$4.50

No. 3003—Brown Leather Case, Velveteen Lining, Contains 1 Each 3 1/2, 5 and 6 in. Fancy Gold Bow, Crucible Steel Scissors. 6.00

NAIL NIPPERS



Per Dozen

No. 8167—Forged Steel, Knurled Handle, Lock-Catch, Volute Spring, Full Nickel Plated, 4 1/4 in. Long. \$24.00



Per Dozen

No. 6543—Forged Crucible Steel, Tempered Spring, Ground Cutters, Extra Fine Full Nickel Plated, 4 1/4 in. Long. \$18.00

NAIL CLIPPERS



Per Dozen

Gem—Length 2 in., High Grade Tool Steel, Two Cutting Jaws are Hardened, Tempered and Ground, Has no Sharp Corners to Wear the Pocket when Closed, Full Nickel Plated. \$4.00

A Pocket Manicure, it cleans, cuts and files better than a knife or scissors, trims nails nice and even, oval shape, any desired length. Best for removing hang nails.

TWEEZERS



Fine Quality Steel, Nickel Plated

No. 40—4¼ in. Long, Round Sharp Points.....\$4.00
One Dozen on a Card.



Best Quality Splinter Tweezer

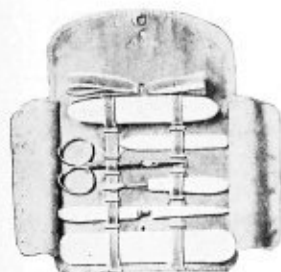
No. 225—3 in. Long, Nickel Plated Steel.....\$7.50
One Dozen on a Card.



Best Quality Dressing Tweezer

No. 226—3½ in. Long, Nickel Plated Steel.....\$9.00
One Dozen on a Card.

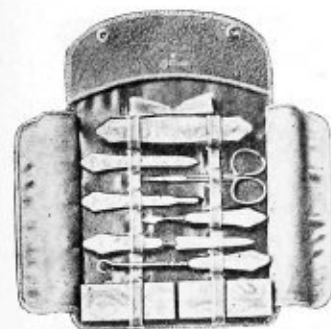
MANICURE SETS



Lamb Skin Case, Astrachan Grain, Satin Lined

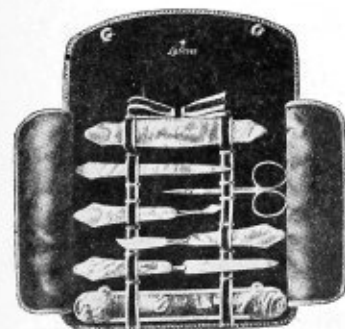
No. 3126 — 6 Piece Set,
Contains Sheath with
Emery Board, Nail File,
Cuticle Knife, Stick
Button-hook and Buffer,
Bone Handles.....\$3.50

Per Set

French Ecrase Finished
Leather Case Satin
Lined

No. 26139 — 9 Piece
Set, Contains 2 Boxes
with Nail Cake and
Pumice Cake, But-
tonhook, Nail File,
Cuticle Knife, Clean-
er, Cuticle Scissors,
Earspoon and Buffer,
Pearl on Amber Han-
dles.....\$8.50

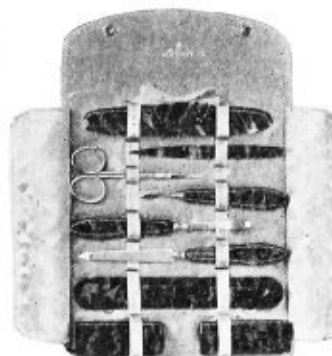
Per Set

Astrachan Grain Lamb
Skin Case, Satin Lined

No. 27107 — 7 Piece
Set, Contains Sheath
with Emery Boards,
Nail File, Cuticle
Knife, Cornknife,
Cuticle Scissors, Stick
and Buffer, Gold
Pearloid Handles....
.....\$10.00

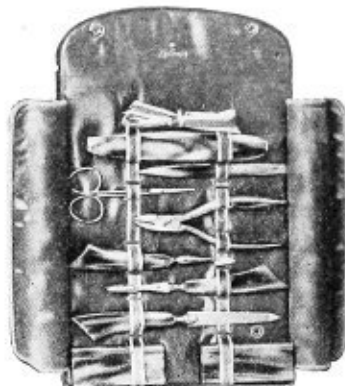
Per Set

MANICURE SETS

Leaf Grain Lamb Skin
Case, Satin Lined

No. 18129 — 9 Piece
Set, Contains 2 Box-
es with Nail Cake
and Pumice, Sheath
with Emery Boards,
Nail File, Tweezers,
Cuticle Knife, Cuti-
cle Scissors, Stick
and Buffer, Shell
Handles.....\$7.25

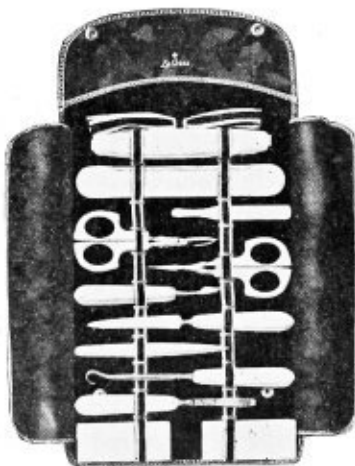
Per Set



Alligator Grained Leather Case, Satin Lined

No. 12349—9 Piece Set, Contains 2 Boxes with Nail
Cake and Pumice Cake, Nail File, Cornknife,
Cuticle Knife, Nail Nippers, Cuticle Scissors,
Stick and Buffer, Horn Amerith Handles.....\$10.50

Per Set



Leaf Grain Lamb Skin Case, Satin Lined

No. 14632—12 Piece Set, Contains 2 Boxes with
Nail Cake and Pumice Cake, Buttonhook,
Tweezers, Stick, Nail File, Cuticle Knife, Cuticle
Scissors, Nail Scissors, Cleaner, Sheath with
Emery Boards and Buffer, Ivory Handles.....\$12.00

Per Set

BUTCHER KNIVES

RUSSELL PROFESSIONAL



No. 21012—Improved Cord Wrapped Sure-Grip Handle

Completely Hand Forged Special High Carbon Crucible Steel Blade, Ground and Honed to a Keen Sharp Edge.

| | | | | |
|--------------------------|---------|-------|-------|-------|
| Length Blade, Inches.... | 8 | 10 | 12 | 14 |
| Per Dozen..... | \$10.50 | 15.25 | 20.20 | 25.00 |

One-half Dozen in a Box.

RUSSELL



No. 012B—Beechwood Handle

Hand Forged from Special High Carbon Crucible Steel, Heavy Gauge, Ground and Edged Sharp.

| | | | | | | | |
|---------------------|--------|------|------|-------|-------|-------|-------|
| Length, In. | 6 | 7 | 8 | 9 | 10 | 12 | 14 |
| Per Dozen.. | \$5.75 | 7.00 | 8.50 | 10.50 | 13.00 | 17.75 | 22.50 |

One-half Dozen in a Box.

RUSSELL STAINLESS



Cocobolo Handle, Large Brass Rivets

| | |
|--|-------------------|
| No. 53419—7 in. Stainless Steel Blade..... | Per Dozen \$10.50 |
|--|-------------------|

One-half Dozen in a Box.

BONING KNIVES

RUSSELL



Large Solid Beechwood Handle

| | |
|--|------------------|
| No. 1012—6 in. Heavy Gauge, Hand Forged Special High Carbon Crucible Steel Blade | Per Dozen \$6.00 |
|--|------------------|

One-half Dozen in a Box.



Extra Large Solid Beechwood Handle

| | |
|---|------------------|
| No. 2516—6 in. Heavy Gauge, Forged Special High Carbon Crucible Steel Curved Blade..... | Per Dozen \$6.60 |
|---|------------------|

One-half Dozen in a Box.

STICKING KNIVES

RUSSELL



Beechwood Handle, Riveted

| | |
|--|------------------|
| No. 012-S—6 in. Hand Forged Special High Carbon Crucible Steel Blade, Point is Sharp on Both Sides | Per Dozen \$6.00 |
|--|------------------|

One-half Dozen in a Box.

SKINNING KNIVES

RUSSELL



Beechwood Handle, Riveted

| | |
|---|------------------|
| No. 012—6 in. Hand Forged Special High Carbon Crucible Steel Blade, Will Take a Keen Razor Edge | Per Dozen \$7.50 |
|---|------------------|

One-half Dozen in a Box.

BUTTER KNIVES

RUSSELL



Cocobolo Handle, Metal Bolster

| | |
|---|-------------------|
| No. 58289—6 in. Heavy Gauge Stainless Steel Blade | Per Dozen \$13.50 |
|---|-------------------|

One-half Dozen in a Box.

CHEESE KNIVES

RUSSELL



Cocobolo Handle, Brass Rivets

| | |
|--|-------------------|
| No. 53519—12 in. Heavy Gauge Stainless Steel Blade | Per Dozen \$24.00 |
|--|-------------------|

One-half Dozen in a Box.

COOKS KNIVES

RUSSELL



No. 68—French Sabatier Pattern

Hand Forged Special High Carbon Crucible Steel Blade, Solid Ebonwood Handle, Metal Bolster.

| | | | | |
|---------------------------|---------|---------|-------|-------|
| Length Blade Inches.... | 4 | 5 | 6 | 8 |
| Per Dozen | \$11.00 | 12.50 | 15.00 | 20.00 |
| Length Blade, Inches..... | | 10 | 12 | 14 |
| Per Dozen | | \$28.00 | 36.00 | 44.00 |

One-half Dozen in a Box.

BREAD KNIVES

BURNS



Cocobolo Handle, Brass Compression Rivets

The serrated edge cuts with each motion of the hand, producing a clean cut without tearing the bread or causing crumbs. The serrated edge will last for years.

| | |
|--|-------------------|
| No. 1—Large Bread Knife, 9 in. Polished Steel Blade, Length Over All 13 3/4 in. | Per Dozen \$12.00 |
| No. 3—Bread and Cake Knife, 8 in. Blade, Length Over All 12 in. | 7.20 |

No. 1, One-half Dozen; No. 3, One Dozen in a Box.

BREAD KNIVES

LIGHTNING



Ebony Finish Hardwood Handle

The finest cakes can be cut without crumbling, edge can be sharpened on ordinary steel.

- No. 300—9 in., Special Forged Steel Serrated Blade, Oil Tempered and Polished, Swaged Back, Nickel Plated Brass Bolster.....\$4.80
One Dozen in a Box.

SLICERS

RUSSELL



Round Ebonwood Handle

- No. 3309—8 1/4 in. Stainless Steel Blade, Nickel Ferule.....\$9.00
One-half Dozen in a Box.



"Cooks," Ebonwood Handle

- No. 6762—8 1/2 in. Polished Steel Blade, Metal Bolster, Brass Rivets.....\$10.80
One-half Dozen in a Box.



"Lunch," Cocobolo Handle, Brass Rivets

- No. 5314—7 1/2 in. Polished Steel Blade.....\$6.50
One-half Dozen in a Box.



Ebonwood Handle, Brass Rivets

- No. 6316—10 in. Flexible Steel Blade, Carefully Ground.....\$13.20
One-half Dozen in a Box.



"Household," Solid Cocobolo Handle, Brass Rivets

- No. 53189—8 in. Stainless Steel Blade.....\$11.50
One-half Dozen in a Box.

KITCHEN OR PARING KNIVES

RUSSELL



Beechwood Handle

- No. 13—3 1/2 in. Carbon Steel Blade.....\$2.50
One Dozen in a Box.



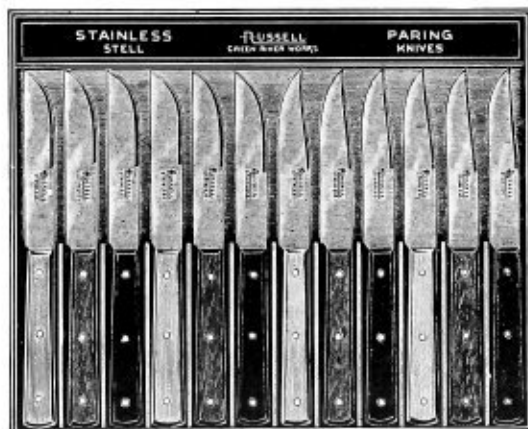
Polished Maple Handle

- No. 6—3 in. Carbon Steel Blade.....\$2.50
One Dozen in a Box.



Stainless Steel Assortment

- No. 80—Contains 12 Knives, 6 Each of Two Shapes, 3 in. Stainless Steel Blades, Black Enameled Wood Handles, in Display Box.....\$3.00



Stainless Steel Assortment

- No. 159—Contains 12 Knives, 3 in. Stainless Steel Blades, Assorted Cocobolo, Ebonwood and Boxwood Handles, Full Tang, in Display Box.....\$4.20

GRAPE FRUIT KNIVES

RUSSELL



Black Enameled Wood Handles

No. 609—Serrated Edge Stainless Crucible Steel Blade \$6.00
One Dozen in a Box.



Black Enameled Wood Handle

No. 619—Double Edge Curved Stainless Steel Blade.....\$5.50
One Dozen in a Box.

SPATULAS OR PALLET KNIVES

RUSSELL



Crucible Steel Blade, Cocobolo Handle, Metal Bolster

| Length Blade, In. | 4 | 6 | 8 | 10 | 12 | 14 |
|-------------------|--------|------|-------|-------|-------|-------|
| Width Blade, In. | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
| Per Dozen..... | \$6.25 | 8.00 | 13.00 | 20.00 | 25.00 | 40.00 |

One-half Dozen in a Box.

ONE-ARM MAN'S KNIVES

RUSSELL



Hard Rubber Handle, with Sole Leather Sheath

No. 1479—4 1/4 in. Stainless Steel Blade and Fork
End \$18.00
One-half Dozen in a Box.

COOKS FORKS

RUSSELL



Solid Cocobolo Handle, Brass Rivets

No. 5286—Length Over All 12 1/2 in. \$6.30
One-half Dozen in a Box.

HOUSEHOLD KNIFE SETS

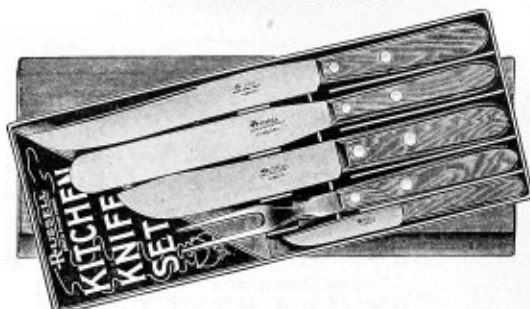


Cocobolo Handles, Nickel Silver Telescope Large Head Rivets, Through Tang.

No. 1923 1/2 SS—Set Contains 6 Knives, Two 9 in. Slicers, Two 7 1/2 in. Slicers, and Two 6 in. Butcher Knives, Stainless Steel Blades, in Display Box...\$5.50

KITCHEN KNIFE SETS

RUSSELL STAINLESS



Solid Ebonwood Handles, Large Brass Rivets

No. 3059—Set Contains 5 Pieces, One Each 8 in. Slicer, 7 in. Spatula, 6 in. Butcher Knife, Pot Fork and Paring Knife, all with Stainless Steel Blades, in a Box.....\$4.00



RUSSELL

Ebonwood Handles, Brass Rivets

No. 300—Set Contains 6 Pieces, one Each 12 1/2 in. Pot Fork, 8 in. Slicer, 6 in. Butcher Knife, 7 in. Spatula, 4 in. Kitchen Knife and Paring Knife, High Grade Polished Steel Blades, Sharpened Ready for Use.\$3.00

MICA SPLITTING KNIVES

DEXTER



Round Burnt Handle

No. X26327—6 in. Pointed Crucible Steel Blade, Highly Polished, Length Over All 10 in. \$8.00
One Dozen in a Box.

OYSTER KNIVES



New York Pattern

No. 153—Solid Steel, 5 in. Half Polished Blade and Edges \$4.50



Boston Pattern

No. 155—2 3/4 in. Polished Steel Blade, Whitewood Handle \$3.50
One Dozen in a Box.

SHOE KNIVES

OLD PUT



Square Point

Forged Polished Crucible Steel Blade, Polished Stained Handle.

| | | |
|---------------------------|--------|-------|
| Nos. | 3 | 4 |
| Length Blade, Inches..... | 3 3/4 | 3 5/8 |
| Per Dozen | \$3.50 | 3.50 |

One Dozen in a Box.

RUSSELL



Black Wood Handle

Per Dozen

No. 421—4 in. Forged Crucible Steel Blade, Bevel Point, Polished

One Dozen in a Box.

ROPE KNIVES

RUSSELL



Per Dozen

No. 2025—3 in. Steel Blade, Beechwood Handle....\$4.00
One Dozen in a Box.

BANANA KNIVES

RUSSELL



Per Dozen

No. 125—6 1/2 in. Forged Steel Blade, Maple Handle.\$7.50
One Dozen in a Box.

SLOYD KNIVES

R. MURPHY

Polished Rubberoid Handle, Riveted, Closed Ferrules
High Grade Steel, Well Tempered and Ground.

| | | |
|---------------------------|--------|-------|
| Nos. | 1 | 1 1/2 |
| Length Blade, Inches..... | 2 5/8 | 3 |
| Per Dozen | \$6.00 | 6.75 |

One Dozen in a Box.

MANUAL TRAINING KNIVES

Polished Rubberoid Handle, Closed Ferrule, Riveted
Per DozenNo. 2 1/2 M—2 1/2 in. High Grade Steel Blade.....\$4.50
One Dozen in a Box.PATTERN AND SHIRT CUTTERS
KNIVES

BLADES ONLY



Special High Grade Steel, Ground and Tempered

Per Dozen

No. 1—Blade Only, 1/2 in. Wide, 8 in. Long.....\$3.00

No. 2—Blade Only, 5/8 in. Wide, 9 in. Long.....3.75



Collar and Cuff Blades

Special High Grade Steel, Ground and Tempered.

Per Dozen

No. 0—1/2 in. Wide, 6 in. Long.....\$2.25

HANDLES ONLY



Per Dozen

No. 1—4 1/8 in. Long, for Nos. 0 and 1 Blades.....\$16.50

No. 2—4 3/8 in. Long, for No. 2 Blades.....18.00

EXTENSION BLADES



Special High Grade Steel, Ground and Tempered

Per Dozen

No. 0 1/2—5/8 in. Wide, 4 3/4 in. Long, Bevel Point...\$2.00

EXTENSION BLADE HANDLES



Black Enameled Wood

Per Dozen

No. 0—4 1/4 in. Long, for No. 0 1/2 Extension Blades...\$9.00

FARRIERS KNIVES

HELLER



Forged Crucible Tool Steel Blades

Per Dozen

No. 51A—Bone Handle, Assorted 1/2, 5/8 and 3/4 in.
Width Blades

\$10.00

One-half Dozen in a Box.

OIL CLOTH KNIVES

RUSSELL



Burnt Wood Handle

Particularly adapted to cutting Linoleum and Roofing Paper.

No. 424—2½ in. Crucible Steel Blade.....\$6.50
One-half Dozen in a Box.

PAPER HANGERS KNIVES

RUSSELL



Burnt Wood Handle

No. 5—3¾x1¼ in. Round Point High Grade Steel Blade, Hardened, Tempered and Ground.....\$4.50

PUTTY KNIVES

RUSSELL



High Grade Steel Blade, Cocobolo Handle, Metal Bolster.

No. 150 —Stiff Blade, 3½x1¼ in.....\$5.60
No. 150E—Elastic Blade, 3½x1¼ in.....6.00



Especially Designed for the Professional Painter

Heavy Gauge High Grade Steel Blade, Large Cocobolo Handle, Metal Bolster.

No. 1540 —Stiff Blade, 3¾x2 in.....\$7.25
No. 1540E—Elastic Blade, 3¾x2 in.....8.00



High Grade Steel Blade, Solid Cocobolo Handle, Closed End Brass Ferrule

No. 306 —Stiff Blade, 3½x1½ in.....\$6.50
No. 306E—Elastic Blade, 3½x1½ in.....7.00



Tempered Cutlery Steel Blade, Red Stained Wood Handle, Brass Ferrule

No. 135—3½x1¾ in. Blade.....\$2.40
All Above, One Dozen in a Box.

SCRAPING KNIVES

RUSSELL



Cocobolo Handle

Full Forged High Carbon Steel, Drop Forged Bolster.

No. 525-S—Stiff Blade

| | | | | |
|--------------------------|---------|-------|-------|-------|
| Width Blade, Inches..... | 2½ | 3 | 3½ | 4 |
| Per Dozen | \$10.60 | 11.40 | 12.40 | 13.40 |

No. 525E—Elastic Blade

| | | | | |
|--------------------------|---------|-------|-------|-------|
| Width Blade, Inches..... | 2½ | 3 | 3½ | 4 |
| Per Dozen | \$11.60 | 12.70 | 13.70 | 15.00 |

One-half Dozen in a Box.

P. B.



No. 125—Natural Finish Beech Handle, Rust-proof Screws, Tempered Steel Blade

| | | | |
|----------------------------|--------|------|------|
| Width of Blade, Inches.... | 3 | 3½ | 4 |
| Per Dozen | \$2.50 | 2.75 | 3.00 |

One Dozen in a Box.

READING



Japanned Iron Handle

Handle is Hollow so it can be extended for high places by using broom stick, also used for Scraping Baking Boards.

No. 431—3 in. Wide Steel Blade.....\$2.40
One Dozen in a Box.

GAME SHEARS



No. 7125—Solid Steel, Saw Tooth Blade and Bone Cracker, Nicked Volute Spring, Corrugated Handles, with End Lock, Full Nickel Plated.....\$3.00
One in a Box.

KNIFE SHARPENERS

CARBORUNDUM



A Round Carborundum Shaft, Firmly Secured to Stained Wood Handle by a Steel Rod Extending its Entire Length, Nickel Plated Ferrule and Guard.

No. 76—Length Over All 14 in. Per Dozen \$6.00
One Dozen in Display Box.

BUTCHER STEELS



No. 54—Double Cut Steel, Black Enameled Grooved Handle, White Metal Round Guard, Nickel Plated Ferrule, Galvanized Ring and Swivel.

| | | | |
|---------------------------|---------|-------|-------|
| Length Blade, Inches..... | 10 | 12 | 14 |
| Per Dozen | \$12.50 | 15.00 | 18.00 |

One-half Dozen in a Box.

HOUSEHOLD CLEAVERS

RUSSELL

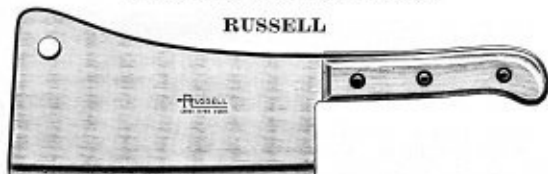


Beechwood Handle, Riveted

No. 2346—6 in. Forged Steel Blade, Weight Each 10 Oz. Per Dozen \$11.50

LAMB CLEAVERS

RUSSELL



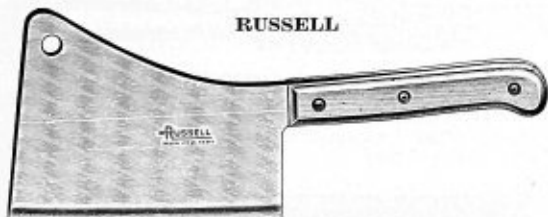
No. 2581—Beechwood Handle

Full Forged Solid Steel Blade and Tang, Heavy Steel Rivets.

| | | | |
|---------------------------|-------------|-------------|-------------|
| Length Blade, Inches..... | 7 | 8 | 9 |
| Weight Each..... | 1 lb. 3 oz. | 1 lb. 9 oz. | 2 lb. 2 oz. |
| Per Dozen..... | \$39.00 | 43.00 | 47.50 |

MARKET CLEAVERS

RUSSELL



No. 2580—Beechwood Handle

Full Forged Solid Steel Blade and Tang, Heavy Steel Rivets.

| | | | |
|---------------------------|--------------|--------|-------------|
| Length Blade, Inches..... | 7 | 8 | 9 |
| Weight Each | 2 lb. 11 oz. | 3 lbs. | 3 lb. 6 oz. |
| Per Dozen | \$51.00 | 54.50 | 60.50 |

BEEF CARVERS

RUSSELL



Hand Forged High Carbon Crucible Steel

No. 1521—Two Pieces, Knife and Fork, 8 in. Blade, Vul-Stag Handles, Nickel Silver Caps, Folding Guard on Fork. Per Pair \$3.50



Hand Forged High Carbon Crucible Steel

No. 1541—Two Pieces, Knife and Fork, 8 in. Blade, Vul-Stag Handles, Nickel Silver Caps, Folding Guard on Fork. Per Pair \$3.50



Hand Forged High Carbon Crucible Steel

No. 1561—Two Pieces, Knife and Fork, 8 in. Blade, Vul-Stag Handles, Nickel Silver Caps, Folding Guard on Fork. Per Pair \$3.50

RUSSELL STAINLESS



Forged Best Grade Stainless Steel

No. 16792—Three Piece Set, Knife, Fork and Steel, 8 in. Blade, Vul-Stag Handles, Nickel Silver Caps, Folding Guard on Fork. Per Set \$7.40



Forged Best Grade Stainless Steel

No. D76791—Three Piece Set, Knife, Fork and Steel, 8 in. Blade, Genuine Stag Handles, Heavy Sterling Silver Ferrules, Folding Guard on Fork. Per Set \$8.70



Forged Best Grade Stainless Steel

No. L16691—Three Piece Set, Knife, Fork and Steel, 8 in. Blade, Vul-Stag Handles, Nickel Silver Ferrules, Folding Guard on Fork. Per Set \$6.70



Forged Best Grade Stainless Steel

No. EX16791—Three Piece Set, Knife, Fork and Steel, 8 in. Blade, Vul-Stag Handles, Nickel Silver Ferrules, Folding Guard on Fork. Per Set \$7.50

Note—Vul-Stag (Hard Rubber) Handles are Indestructible. Will not crack nor burn.

All Above, One Pair or Set in Cloth Lined Box.

BEEF CARVERS**RUSSELL STAINLESS**

Stainless Blades are forged from best grade of steel. Forks have a folding guard.

**Knobby Natural Horn Handles**

Per Set

- No. E56697MF—Three Piece Set, Knife, Fork and Steel, 8 in. Mirror Finish Blade, Sterling Silver Ferrules, Folding Guard on Fork.....\$11.50

**Genuine Stag Handles**

Per Set

- No. C75692—Three Piece Set, Knife, Fork and Steel, 8 in. Blade, Sterling Silver Ferrules, Folding Guard on Fork.....\$10.00

**Zylonite Ivory Grain Handles**

Per Set

- No. 45693—Three Piece Set, Knife, Fork and Steel, 8 in. Blade, Folding Guard on Fork.....\$8.30

**Zylonite Ivory Grain Handles**

Per Set

- No. 45695—Three Piece Set, Knife, Fork and Steel, 8 in. Blade, Folding Guard on Fork.....\$7.75

**Genuine Stag Handles**

Per Set

- No. A75691—Three Piece Set, Knife, Fork and Steel, 8 in. Blade, Sterling Silver Ferrules, Folding Guard on Fork.....\$ 9.30
No. A75691-5—Five Piece Set, Same as Above, with 6 in. Blade Knife and Fork in Addition..... 15.50

**Genuine Stag Handles**

Per Set

- No. E75691—Three Piece Sets, Knife, Fork and Steel, 8 in. Blade, Sterling Silver Ferrules, Folding Guard on Fork.....\$10.00
No. E75691-5—Five Piece Set, Same as Above, with 6 in. Blade Knife and Fork in Addition..... 17.00

All Above, One Set in a Cloth Lined Box.

BIRD CARVERS**Zylonite Ivory Grain Handles**

Per Pair

- No. 44395—Two Pieces, Knife and Fork, 6 in. Stainless Steel Blade, 2 Prong Fork.....\$8.30

BIRD CARVERS**RUSSELL STAINLESS**

Stainless Blades are forged from the best grade of steel. No Guard on Forks.

**Vul-Stag Handles**

Per Pair

- No. 15691—Two Pieces, Knife and Fork, 5½ in. Blade, Nickel Silver Caps.....\$5.20

**Vul-Stag Handles**

Per Pair

- No. L16691—Two Pieces, Knife and Fork, 5½ in. Blade, Nickel Silver Ferrules.....\$6.00

**Vul-Stag Handles**

Per Pair

- No. 16791—Two Pieces, Knife and Fork, 5½ in. Blade, Nickel Silver Caps.....\$5.20

**Genuine Stag Handles**

Per Pair

- No. C76791—Two Pieces, Knife and Fork, 5½ in. Blade, Sterling Silver Ferrules.....\$6.00

All Above, One Pair in a Cloth Lined Box.

MEDIUM KNIVES AND FORKS**STEAK PATTERN****Hard Rubber Handles**

Per Set

- No. 1209—Knives and Forks, Polished Stainless Steel Swaged Blades, 3¾ in. Handles, Four Tine Forks.....\$8.00

**Ivoride Handles**

Per Set

- No. 2209—Knives and Forks, Polished Stainless Steel Swaged Blades, 3¾ in. Handles, Four Tine Forks.....\$9.00

**Zylonite Ivory Grain Handles**

Per Set

- No. 4409MF—Knives and Forks, Stainless Steel Mirror Finish Swaged Blades, 3¾ in. Handles, Four Tine Forks.....\$15.00

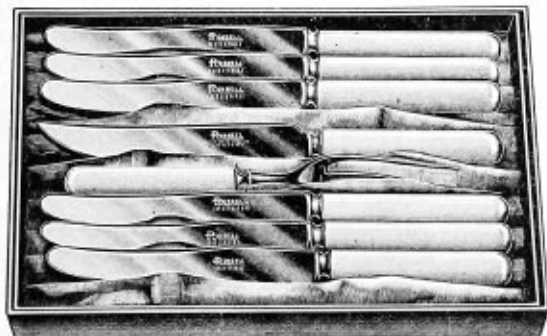
**Ebonwood Handles, Nickel Silver Rivets**

Per Set

- No. 66169—Knives and Forks, Polished Stainless Steel Swaged Blades, Four Tine Forks.....\$6.00
One Set (Six Knives and Six Forks) in a Box.

STEAK SETS

RUSSELL



Stainless Steel

- No. 45695—Set Contains Six Medium Steak Pattern Knives with Zylonite Ivory Grain Oval Handles, and One Pair 5 1/2 in. Blade Bird Carvers, in Display Box \$15.00

Per Set

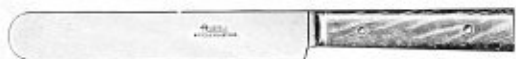
TABLE KNIVES AND FORKS

RUSSELL



- No. 118—Knives and Forks, 5 1/4 in. Rocker Steel Blade, 3 3/8 in. Cocobolo Handles, 4 Tine Forks... \$2.00
- No. 118K—Knives Only Per Dozen, 2.00

Per Set



- No. 120—Knives and Forks, 5 1/4 in. Rocker Steel Blades, 3 3/8 in. Cocobolo Handles, Metal Bolster, 4 Tine Forks \$1.25
- No. 120K—Knives Only Per Dozen, 1.25

Per Set



- No. 1563C—Knives and Forks, 5 1/4 in. Cimenter Swaged Polished Steel Blades, 3 3/8 in. Cocobolo Handles, Metal Bolster and Cap, 4 Tine Forks..... \$1.50
- No. 1563CK—Knives Only Per Dozen, 1.50

Per Set



- Medium Knives and Forks, Highly Polished Straight Blades, 3 3/8 in. Ivoride Handles, 4 Tine Forks.
- No. 211 —High Carbon Steel..... \$ 7.00
- No. 2119 —Stainless Steel 13.00
- No. 211K—Knives Only Per Dozen, 7.00
- No. 2119K—Knives Only Per Dozen, 13.00

Per Set

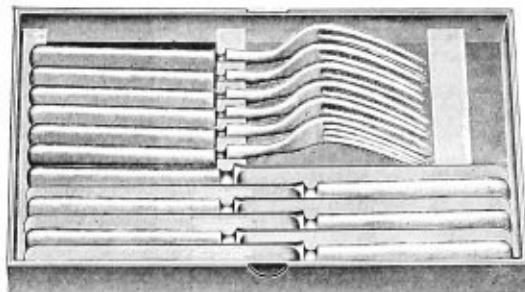


- No. 1119—Medium Knives and Forks, Stainless Steel Straight Blades, Polished, 3 3/8 in. Hard Rubber Handles, 4 Tine Forks..... \$12.00
- One Set (Six Knives and Six Forks) in a Box.

Per Set

KNIVES AND FORKS

NICKEL SILVER



Solid Nickel Silver, Not Plated, Will Not Rust as there is no plate to wear off.

- No. 90—Medium Knives and Forks, Cimenter Swaged Blades, Round End Handles, 4 Tine Forks.... \$4.50
- One Set (Six Knives and Six Forks) in a Box.

Per Set

SILVER PLATED

Full A1 Plate on Medium Weight Blanks

- No. 77—Medium Knives and Forks, Straight Blades, Solid Round End Handles, 4 Tine Forks..... \$7.60
- One Set (Six Knives and Six Forks) in a Box.

Per Set

SILVER PLATED SPOONS

Simeon L. & George H. Rogers



Windsor Pattern

Triple-plated, with extra sectional plating on wearing parts.

- Teaspoons—Length 6 in..... \$ 6.60
- Dessert Spoons—Length 7 1/2 in..... 11.20
- Table Spoons—Length 8 1/4 in..... 13.20
- One Dozen in a Box.

Per Dozen

NICKEL SILVER SPOONS



Shell Pattern, Light Weight

- No. 60T —Tea Spoons, Length 5 7/8 in..... \$1.25
- No. 60TT—Table Spoons, Length 8 1/4 in..... 2.50

Per Dozen



Beaded Pattern, Medium Weight

- No. 80T —Tea Spoons, Length 5 7/8 in..... \$1.35
- No. 80TT—Table Spoons, Length 8 1/4 in..... 2.70

Per Dozen



Windsor Pattern, Heavy Weight

- No. 90T —Tea Spoons, Length 5 7/8 in..... \$1.50
- No. 90TT—Table Spoons, Length 8 1/4 in..... 3.00
- All Above, One Dozen in a Box.

Per Dozen

SILVER PLATED WARE

SIMEON L. AND GEORGE H. ROGERS

Highest Grade Triple Plated Ware, with Extra Sectional Plating at All Wearing Points of Every Spoon and Fork, Increasing the Wear 300 Per Cent

APOLLO PATTERN, GRAY FINISH



Stainless Steel Blades

Per Dozen

No. 7837—Medium Knives, Hollow Handle.....\$20.00

No. 7838—Dessert Knives, Hollow Handle.....20.00



Per Dozen

No. 7819—Medium Forks, Flat Handle.....\$13.25

No. 7818—Dessert Forks, Flat Handle.....13.25



Per Dozen

No. 7801—Tea Spoons, 6 in. Long.....\$ 6.60

No. 7803—Dessert Spoons, 7 1/2 in. Long.....11.20

No. 7804—Table Spoons, 8 1/8 in. Long.....13.20

One-half Dozen in a Box.



Per Dozen

No. 7808—Bouillon Spoons, 5 1/2 in. Long.....\$12.00



Per Dozen

No. 7807—Soup Spoons, 7 in. Long.....\$13.20



Per Dozen

No. 7833—Medium Ladle, 11 in. Long.....\$72.00

No. 7831—Gravy Ladle, 7 in. Long.....75.00



Per Dozen

No. 7809—Berry Spoons, 8 1/2 in. Long.....\$12.00



Per Dozen

No. 7817—Sugar Shell, 5 3/4 in. Long.....\$12.00



Per Dozen

No. 7828—Butter Spreaders, 6 in. Long.....\$10.50



Per Dozen

No. 7827—Butter Knives, 7 1/2 in. Long.....\$14.50



Per Dozen

No. 7820—Oyster Forks, 5 3/4 in. Long.....\$7.50



Per Dozen

No. 7821—Cold Meat Forks, 8 in. Long.....\$25.00

SILVER PLATED WARE

SIMEON L. & GEORGE H. ROGERS

Highest Grade Triple Plated Ware, with Extra Sectional Plating at all Wearing Points of Every Spoon and Fork, Increasing the Wear 300 Per Cent.

JEFFERSON PATTERN, BRIGHT FINISH



Per Dozen

No. 7575—Medium Knives, Hollow Handle.....\$20.00

No. 7576—Dessert Knives, Hollow Handle..... 20.00



Per Dozen

No. 7531—Medium Forks, Flat Handle.....\$13.25

No. 7530—Dessert Forks, Flat Handle..... 13.25



Per Dozen

No. 7501—Tea Spoons, 6 in. Long.....\$ 6.60

No. 7503—Dessert Spoons, 7 1/2 in. Long..... 11.20

No. 7504—Table Spoons, 8 1/8 in. Long..... 13.20

One-half Dozen in a Box.



Per Dozen

No. 7508—Bouillon Spoons, 5 1/2 in. Long.....\$12.00



Per Dozen

No. 7507—Soup Spoons, 7 in. Long.....\$13.20



Per Dozen

No. 7557—Medium Ladles, 11 in. Long.....\$72.00

No. 7558—Soup Ladles 75.00



Per Dozen

No. 7509—Berry Spoons, 8 1/2 in. Long.....\$12.00



Per Dozen

No. 7523—Sugar Shells, 5 3/4 in. Long.....\$12.00



Per Dozen

No. 7546—Butter Spreaders, 6 in. Long.....\$10.50



Per Dozen

No. 7545—Butter Knives, 7 1/2 in. Long.....\$14.50



Per Dozen

No. 7537—Berry Forks, 5 in. Long.....\$7.50



Per Dozen

No. 7533—Oyster Forks, 5 3/4 in. Long.....\$7.50



Per Dozen

No. 7534—Cold Meat Forks, 8 in. Long.....\$25.00

ALARM CLOCKS



Continuous Alarm, Bell on Back

One Day Time and Alarm, Nickel Plated Case, White Dial with Large Numerals, with Shut-Off Switch.

Each
Tingle—4 1/4 in. Dial, Height 6 in. \$2.00



Bell on Back, Long Alarm, Shut-Off Switch

Nickel Plated Brass Octagon Case, 40 Hour Movement, White Dial, Convex Glass.

Each
Tick-Tock—3 3/4 in. Dial, Width 3 3/4 in., Height 4 3/4 in. \$2.60



Plain Dial.



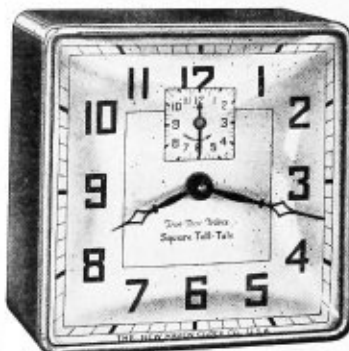
Radium Dial.

Intermittent Alarm, Bell on Back

Nickel Plated Seamless Brass Octagon Case, 40 Hour Movement, 2 1/4 in. Cubist Dial, Width 2 3/4 in., Height 3 3/4 in., Convex Glass, Alarm Rings and Stops in 20 Second Intervals, with Shut-Off Switch.

Each
Tidy-Tot—Plain Dial \$3.50
Tidy-Tot—Radium Dial (Black) 4.50

ALARM CLOCKS



Gold Bronze Finish Square Case

Back Bell Alarm, 40 Hour Movement, Open Skeleton Hands, 3 1/2 in. Dial, Large Numerals, 3 3/4 in. Square, Bowed Glass.

Each
Tell-Tale—Plain Dial \$2.10



Gold Bronze Finish Square Case

Back Bell Alarm, 40 Hour Movement, Open Skeleton Hands, 3 1/2 in. Dial, Large Numerals, 3 3/4 in. Square, Bowed Glass.

Each
Radium Tell-Tale—Radium Dial \$3.00



Eight Day, Signal Automatic Alarm

Nickel Plated Brass Octagon Case, Convex Glass, Runs 8 Days and Alarms Automatically Every 24 Hours for 8 Days, Signal on Dial Shows Whether Alarm will Ring, Silent Beat and Switch.

Each
Ti-Tan—4 1/4 in. White Dial, Width 4 3/4 in., Height 5 1/2 in. \$6.20

One in a Box.

ALARM CLOCKS



Intermittent Alarm, Bell on Back

Nickel Plated Brass Octagon Case, 40-Hour Movement, Cubist Dial, Convex Glass, Alarm Rings and Stops in 20 Second Intervals, with Shut-Off Switch.

Each
Tom-Tom—4 1/4 in. Plain Dial, Width 4 7/8 in., Height 5 1/2 in. \$3.50

One in a Box.



Intermittent Alarm, Bell on Back

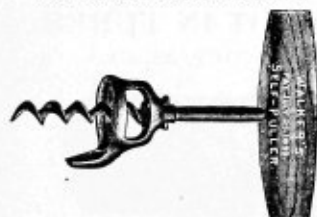
Nickel Plated Brass Octagon Case, 40-Hour Movement, Cubist Dial, Convex Glass, Alarm Rings and Stops in 20 Second Intervals, with Shut-Off Switch.

Each
Radium Tom-Tom—4 1/4 in. Radium Dial, Width 4 7/8 in., Height 5 1/2 in. \$4.50

One in a Box.

CORK SCREWS

WALKER SELF-PULLING

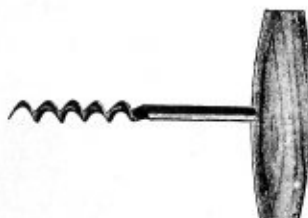


Polished Maple Handle, Wire Cutter Attachment

Per Dozen
No. 39—Length Over All 5 3/4 in., Carefully Tempered Special Steel Screw, Nickel Plated, Weight Per Dozen 2 3/4 Lbs. \$6.00

One in a Box, One Dozen in a Carton.

WALKER



Polished Maple Handle

Per Dozen
No. 37 1/2—Length Over All 4 1/2 in., Special Steel Screw Carefully Tempered, Steel Finish, Weight Per Dozen 1 Lb. \$4.00

One Dozen in a Box.

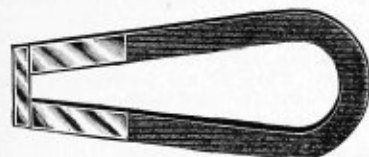
NIFTY



A Combination Crown Cap Lifter and Folding Cork Screw.

Per Dozen
No. 63A—Heavy Metal, Coppered, Heavily Nickel Plated and Highly Polished, Suitable for the Pocket and Key Chain \$3.00
One Dozen on a Four-Color Display Card.

HORSE SHOE MAGNETS



Best Quality, Painted Red, Polished Poles

Length, In. . . . 3 4 5 6
Per Dozen .. \$1.00 2.00 4.00 6.00

Length, In. . . . 8 10 12
Per Dozen \$12.00 18.00 27.00

QUOITS



Cast Iron, Clean and Smooth

One Each Set, Two of the Quoits are Marked "A" and Painted Yellow; Two are Marked "B" and Painted Red.

Nos. 8 12
Wt. Set of Four, Lbs. . . 8 12
Diameter, Inches . . . 5 5 3/4
Per Set of Four. \$1.25 1.75

PITCHING SHOES



Official Standard

Highest Grade Certified Malleable Iron. Very Smooth, Easier to Control than Steel Shoes. Guaranteed Against Breakage. Finished in Red and Black Enamel.

Per Set
Craftsman—Weight Each Shoe, 2 1/2 Lbs., Four Shoes to a Set \$2.25
One Set in a Box, with Rules.

METALLIC CARTRIDGES

RIM FIRE



Bullet Breech Caps

Per 1000

- .22 (B.B.) Caps** — Smokeless Powder, Bullet, 20 Grains \$3.50
100 in a Box, 10,000 in a Case; Weight 41 Pounds.

Conical Bullet Caps

Per 1000

- .22 (C.B.) Caps** — Smokeless Powder, Greaseless Bullet, 30 Grains \$4.40
Adapted to Flobert and all .22 Caliber Rim Fire Single Shot Rifles.
100 in a Box, 10,000 in a Case; Weight 59 Pounds.



Solid Lead Bullet, 30 Grains

Per 1000

- .22 Short**—Semi-Smokeless Powder \$5.00
.22 Short—Smokeless Powder, Greased Bullet 5.35
Adapted to Rifles and Revolvers of this Caliber.
50 in a Box, 10,000 in a Case; Weight 65 Pounds.

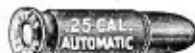


Solid Lead Bullet, 30 Grains

Per 1000

- .22 Long**—Semi-Smokeless Powder \$6.00
.22 Long—Smokeless Powder, Greased Bullet 7.50
Adapted to Rifles and Pistols of this Caliber.
50 in a Box, 10,000 in a Case; Weight 70 Pounds.

CENTER FIRE



Metal Cased Bullet, 50 Grains

Per 1000

- .25 Colt Automatic**—Smokeless Powder \$29.00
Adapted to Colt, Browning, H. & R. and other Automatic Pistols.
50 in a Box, 5000 in a Case; Weight 66 Pounds.



Solid Lead Bullet, 85 Grains

Per 1000

- .32 S. & W.**—Semi-Smokeless Powder \$19.25
.32 S. & W.—Smokeless Powder 21.00
Adapted to S. & W., Colt and other Revolvers.
50 in a Box, 5000 in a Case; Weight 98 Pounds.



Solid Lead Bullet, 98 Grains

Per 1000

- .38 S. & W. Long**—Semi-Smokeless Powder \$21.50
Adapted to S. & W. Hand Ejector and Colt Revolvers.
50 in a Box, 5000 in a Case; Weight 117 Pounds.



Metal Cased Bullet, 74 Grains

Per 1000

- .32 Colt Automatic**—Smokeless Powder \$31.50
Adapted to Remington, Colt, Savage and other Automatic Pistols.
50 in a Box, 5000 in a Case; Weight 100 Pounds.

METALLIC CARTRIDGES

CENTER FIRE



Solid Lead Bullet, 146 Grains

Per 1000

- .38 S. & W.**—Semi-Smokeless Powder \$23.50
.38 S. & W.—Smokeless Powder 27.25
Adapted to S. & W., Colt Police and other Revolvers.
50 in a Box, 2000 in a Case; Weight 63 Pounds.

BLANK CARTRIDGES

RIM FIRE



Per 1000

- .22 Short**—Semi-Smokeless Powder \$3.00
50 in a Box, 10,000 in a Case; Weight 20 Pounds.

CENTER FIRE



Per 1000

- .32 S. & W.**—Semi-Smokeless Powder \$11.00
50 in a Box, 5000 in a Case; Weight 32 Pounds.

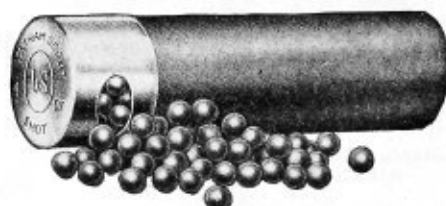


Per 1000

- .38 S. & W.**—Semi-Smokeless Powder \$14.00
50 in a Box, 2000 in a Case, Weight 22 Pounds.
All Blanks adapted to Revolvers and Rifles.

AIR RIFLE SHOT IN TUBES

TATHAM'S BOY SCOUT, LEAD



Uniform Size, Absolutely Round

Made with special care to fit most makes of Air Rifles, the tube is designed for pocket use and by turning the band the shot may be removed as wanted.

Per Case

- No. 100**—250 Pellets in a Tube, Weight 5 Oz., 100 Tubes in a Case, Weight Per Case 34 Lbs. \$7.25

BULLS EYE STEEL

The Perfect Shooting Pellets

Bulls Eye Steel Shot are accurate. Each pellet perfectly formed, which insures straight shooting. They are bright and shiny, are not poisonous like other kinds when held in the mouth. They do not flatten out and do not clog the gun and can often be used over again.



Per Case

- No. 1**—180 Pellets in Brown Kraft Paper Tube with Slip-off Cover, Size of Tube 3 1/2 x 3/4 in., 100 Tubes in a Case, Weight 16 Lbs. \$5.60

H. & R. REVOLVERS**H. & R. PREMIER, HAMMER****"Small Frame"**

Double Action Automatic
Ejector. Rubber Stock.



.22 Caliber, Rim Fire, 7 Shots

For .22 Short, Long and Long Rifle R. F. Cartridges.

Each
No. 22B —Blue, 3 in. Barrel, Weight 13 Oz. \$10.00
No. 22PNP—Nickel Plated, 3 in. Barrel, Weight
13 Oz. 10.00

.32 Caliber, Center Fire, 5 Shots

For 32 S. & W. C. F. Cartridges. Each

No. 32PB —Blue, 3 in. Barrel Weight 12 Oz. \$10.00
No. 32PNP—Nickel, 3 in. Barrel, Weight 12 Oz. 10.00

H. & R. AUTOMATIC EJECTING, HAMMER**"Heavy Pattern"**

Double Action Automatic
Ejector. Rubber Stock.



.38 Caliber, Center Fire, 5 Shots

For .38 S. & W. and Colt New Police C. F. Cartridges.

Each
No. 38AEB —Blue, 3 1/4 in. Barrel, Weight 15 Oz. \$10.00
No. 38AENP—Nickel, 3 1/4 in. Barrel, Weight 15 Oz. 10.00

H. & R. HAMMERLESS**"Small Frame"**

Double Action Automatic
Ejector, Independent Cylinder
Stop. Rubber Stock.



.22 Caliber, Rim Fire, 7 Shots

For .22 Short, Long and Long Rifle R. F. Cartridges.

Each
No. 22HB —Blue, 3 in. Barrel, Weight 13 Oz. \$11.00
No. 22HNP—Nickel, 3 in. Barrel, Weight 13 Oz. 11.00

.32 Caliber, Center Fire, 5 Shots

For 32 S. & W. C. F. Cartridges. Each

No. 32HB —Blue, 3 in. Barrel, Weight 13 Oz. \$11.00
No. 32HNP—Nickel, 3 in. Barrel, Weight 13 Oz. 11.00

"Large Frame"

Double Action Automatic
Ejector, Independent Cylinder
Stop. Rubber Stock.



.38 Caliber, Center Fire, 5 Shots

For .38 S. & W. and Colt New Police C. F. Cartridges.

Each
No. 38HB —Blue, 3 1/4 in. Barrel, Weight 17 Oz. \$11.00
No. 38HNP—Nickel, 3 1/4 in. Barrel, Weight 17 Oz. 11.00

H. & R. REVOLVERS**AMERICAN DOUBLE ACTION****Solid Frame**

Double Action. Rubber
Stock.



.32 Caliber, Center Fire, 6 Shots

For .32 S. & W., S. & W. Long and Colt New Police C. F.
Cartridges. Each

No. 32AB —Blue, 2 1/2 in. Barrel, Weight 16 Oz. \$4.50
No. 32ANP—Nickel, 2 1/2 in. Barrel, Weight 16 Oz. 4.50

.38 Caliber, Center Fire, 5 Shots

For .38 S. & W. and Colt New Police C. F. Cartridges.

Each
No. 38AB —Blue, 2 1/2 in. Barrel, Weight 15 Oz. \$4.50
No. 38ANP—Nickel, 2 1/2 in. Barrel, Weight 15 Oz. 4.50

YOUNG AMERICA**Solid Frame**

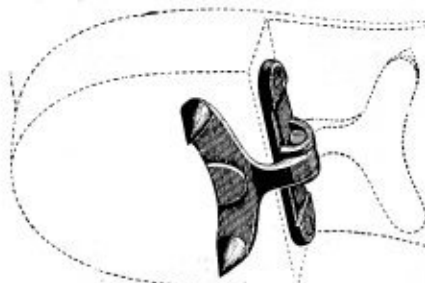
Double Action. Rubber
Stock.



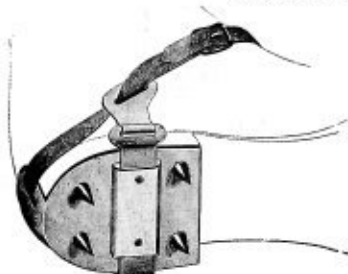
.22 Caliber, Rim Fire, 7 Shots

For .22 Short and Long R. F. Cartridges. Each

No. 22YB —Blue, 2 in. Barrel, Weight 8 1/2 Oz. \$4.50
No. 22YNP—Nickel, 2 in. Barrel, Weight 8 1/2 Oz. 4.50

ICE CREEPERS**SECURITY**

Per Dozen Pairs
No. 10—Reversible, A Convenient and Serviceable
Creepers, (One Size Only) \$1.80
One Dozen Pairs with Screws in a Box.

BLUE RIBBON

Per Dozen Pairs
No. 11—Steel Plate
and Points, with
Straps (One Size
Only) \$3.00

Will fit heels 2 1/4 to
3 1/4 in. wide. For either
shoe or rubber, by ad-
justing folding wings.

One Dozen Pairs in a
Box.

ICE CREEPERS

INSTEP



Malleable Plate,
Japanned

A very practical Creeper. It may be worn on a Rubber Boot or Overshoe.

Per Dozen Pairs
No. 50—With Straps\$2.50

One Dozen Pairs in
a Box.

NORLUND OK



Made of Good Quality Tempered Steel

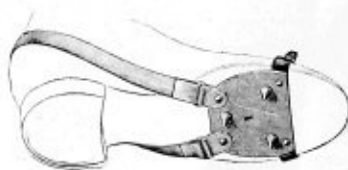
Light and Strong, can be adjusted to fit several Sizes of Heels, easily applied and quickly removed.

| | | | |
|----------------------|--------|--------|-------|
| Nos. | 0 | 1 | 2 |
| Size | Large | Medium | Small |
| Per Dozen Pairs..... | \$4.20 | 4.20 | 4.20 |

One Dozen Pairs of a Size in a Box.

ICE CREEPERS

JAMESTOWN



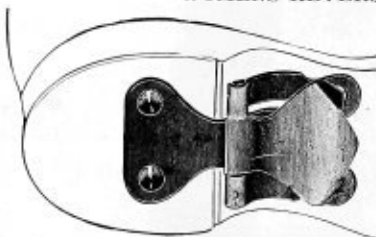
Galvanized Iron Plate,
Hardened Steel Points

Heel Band of Best Quality Rubber, the Tension holding the Creeper well in place.

Per Dozen Pairs
No. 1—For Men's Shoes.....\$7.50
No. 2—For Women's Shoes.....7.50

One Dozen Pairs in a Box.

WOMENS REVERSIBLE



Black Oxidized Steel

For use on low and medium Heels, especially adapted to Ladies Arctics, Rubbers and Overshoes, Rivets to the Heel as well as to the Shank of Shoe.

May be worn on the street or in the house, when not in use the Spur Plate is returned to the shank.

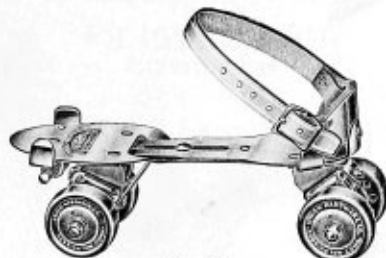
Per Dozen Pairs
No. 90—With Rivets\$3.00

One Dozen Pairs in a Box.

ROLLER SKATES

BALL BEARING EXTENSION

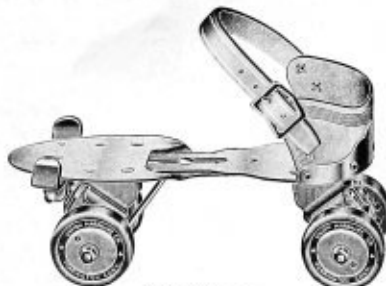
Best Cold Rolled Swedish Steel. Oscillating Trucks, Turn in a 3 foot Circle, Self-Contained Steel Rolls.



For Men

Per Pair

No. 58C—Half Strap Heel, Large Foot Plates, Clamp Toe, Nickel Plated, Formed Steel Loop Protects Strap and Prevents Their Cutting or Pulling Out, Extends from 8 1/2 to 10 1/4 in.....\$2.50

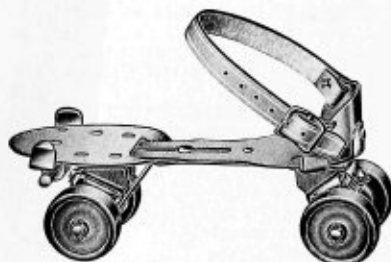


For Women

Per Pair

No. 68C—Full Strap Leather Heel, Clamp Toe, Nickel Plated, Extends from 7 1/2 to 10 in.....\$3.00

PLAIN BEARING EXTENSION

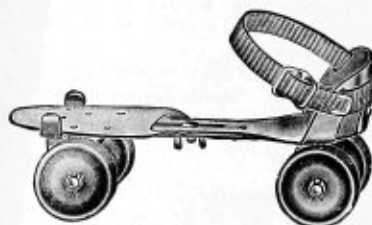


For Boys and Girls

Cold Rolled Swedish Steel Tops, Trucks and Clamp. Oscillating Trucks, Rubber Cushions, Turn in 3 foot Circle.

Per Pair
No. 10—Half Strap Heel, Clamp Toe, Steel Rolls, Bright Finish, Extends from 7 1/2 to 10 in.....\$2.00

EXTENSION SIDEWALK



For Boys and Girls

Have High Grade Homogeneous Steel Tops, High Steel Backs, Adjustment is Easily Made.

Per Pair
No. 3—Web Strap at Heel, Clamps at Toe, Steel Rolls, Extends from 7 1/4 to 9 1/2 in.....\$1.25

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